Ex. 39

City Water, Light & Power
Springfield, Sangamon County, Illinois

Annual Groundwater Monitoring and Corrective Action Report
Year Ending December 31, 2024

January 2025

Prepared for:
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TABLE OF CONTENTS

1. INTRODUCTION 1

2. GROUNDWATER MONITORING PROGRAM 5

3. SECTION 845.610(e)(2): KEY ACTIONS, PROBLEMS ENCOUNTERED, AND KEY ACTIVITIES FOR 2024 5

3.1 Key Actions 5

3.1.1 Assessment Monitoring 5

3.1.2 Assessment Monitoring Investigation 6

3.2 Assessment of Corrective Measures 7

3.3 Problems Encountered 7

3.4 Key Activities for Upcoming Year (2025) 7

4. SECTION 845.610(e)(3)(A-F) 8

5. CONCLUSION 12

6. STATEMENT 13

FIGURES

Figure 1: Site Location

Figure 2: Site Details

TABLES

Table 1: 2024 Groundwater Analytical Results Summary Table

Table 2: 2024 Groundwater Analytical Results Exceedance Summary Table

APPENDICES

Appendix A: 2024 GWPS Exceedance Maps

Appendix B: 2024 Potentiometric Surface Maps

Appendix C: 2024 Laboratory Analytical Reports and Field Sampling Notes

1. INTRODUCTION

In accordance with 35 Ill. Adm. Code 845.550(a)(3) provided herein is the Annual Groundwater Monitoring and Corrective Action Report for year ending December 31, 2024. Pursuant to Section 845.610(e)(1), the Annual Groundwater Monitoring and Corrective Action Report must be included as part of the annual consolidated report required by Section 845.550.

City Water, Light and Power (CWLP) owns and operates two (2) existing coal combustion residual (CCR) surface impoundments. The CWLP CCR surface impoundments are located north and east of the former Lakeside Power Generating Station and Dallman Power Generating Station in the Eastern ½ of Section 12, Township 15 North, Range 5 West, in Springfield, Illinois (see Figure 1). These CCR surface impoundments are identified as the Lakeside Ash Pond and the Dallman Ash Pond (see Figure 2).

The former Lakeside Power Generating Station and Dallman Power Generating Station are situated on the northwestern bank of Lake Springfield in Springfield, Illinois. The Lakeside Ash Pond is immediately north of Spaulding Dam at the northern end of Lake Springfield. The Dallman Ash Pond is immediately northwest of the Lakeside Ash Pond. Placed into service prior to 1958, the Lakeside Ash Pond is primarily a diked embankment. The Lakeside Ash Pond consists of four separate ponds (i.e., three lime ponds and a settling pond) totaling approximately 35.0 acres. The Lakeside Ash Pond ceased receiving ash in 2009. The Dallman Ash Pond was placed into service in approximately 1976 and is also a diked embankment. The Dallman Ash Pond is approximately 34.5 acres and ceased receiving ash in 2021.

All CCR and non-CCR waste streams ceased flowing into the Lakeside Ash Pond and Dallman Ash Pond as of October 13, 2023.

Status of the Groundwater Monitoring and Corrective Action Programs

Pursuant to Section 845.610(e)(4), the annual report must provide an overview of the groundwater monitoring program and corrective action plan. The summary must:

A) Specify whether groundwater monitoring data shows a statistically significant increase over background concentrations for one or more constituents listed in Section 845.600;

Pursuant to 35 Ill. Adm. Code 845.600, CWLP submitted to the Illinois EPA and placed into the facility record a Groundwater Monitoring Program (GMP) for the CCR surface impoundments on October 28, 2021. The background concentrations presented in the 2021 GMP were based upon eight independent samples collected from each background and downgradient well and analyzed for the monitoring parameters listed in Section 845.600:

- Antimony
- Arsenic
- Barium
- Beryllium
- Boron
- Cadmium
- Calcium
- Chloride
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Mercury
- Molybdenum
- pH
- Radium 226/228
- Selenium
- Sulfate
- Thallium
- Total Dissolved Solids

CWLP updated the GMP in September 2024 as part of correspondence with the United States EPA as well as in response to Illinois EPA comments on the Initial Operating and Construction Permit applications. The 2024 GMP update included revising background concentrations based on eight independent samples collected between the first quarter 2016 and fourth quarter 2017. For the parameters antimony, cobalt, calcium and lead background sampling was conducted between the first quarter 2020 through the fourth quarter 2021 using lower practical quantitation limits (PQLs). The arsenic background concentration was calculated based on eight independent samples collected between July 7, 2023 through August 12, 2024.

The present groundwater monitoring network includes two upgradient wells (wells AP-4 and AP-5), nine downgradient wells (RW-3, AP-1R, AP-2A, AP-3, AP-6, AP-7, AP-8, AP-10 and AP-14) and ten compliance boundary wells (AP-7, AP-9, AP-11, AP-12, AP-13, T-1, T-2, T-4, T-5 and T-6). Monitoring wells T-1, T-2, T-4, T-5 and T-6 were installed in April and May of 2024. During 2024, groundwater analytical results were compared to the groundwater protection/background values as presented in the September 2024 GMP submittal (see Table 1). Reports documenting exceedances of the calculated background were submitted to the Illinois EPA and placed into the facility record for 2024.

Pursuant to 35 Ill. Adm. Code 845.640(f), the selected statistical method used to evaluate groundwater monitoring data for each constituent is the Prediction Interval Procedure under 35 Ill. Adm. Code 845.640(f)(1)(C). For this procedure, an interval for each constituent is established from the distribution of the background data and then the level of each constituent in each compliance well (i.e., well/constituent) is compared to the upper prediction limit to assess if a statistically significant increase (SSI) over background has occurred.

Based upon this evaluation groundwater monitoring data for 2024 exhibits a statistically significant increase (SSI) over background concentrations for multiple constituents listed in Section 845.600.

B) Identify those constituents having a statistically significant increase over background concentrations and the names of the monitoring wells associated with the increase;

The constituents and wells that exhibit an SSI over background concentrations in 2024 are:

Parameter	AP-1	AP-2	AP-3	AP-4	AP-5	AP-6	AP-7	AP-8	AP-9	AP-10	AP-11	AP-12	AP-13	AP-14	RW-3
Antimony, total									X			X			
Arsenic, total							X	X							X
Barium, total										X					
Boron, total	X	X	X			X	X			X				X	X
Calcium, total	X	X	X									X		X	
Chloride, total	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Cobalt, total		X	X												
Fluoride, total						X									
Lithium															
pH	X	X	X							X	X	X	X		
Sulfate, total	X	X	X		X					X	X	X	X	X	
Total Dissolved Solids	X	X	X						X	X	X	X	X	X	

Parameter	T-1	T-2	T-4	T-5	T-6
Antimony, total			X		
Arsenic, total					
Barium, total					
Boron, total	X	X			X
Calcium, total	X	X			
Chloride, total	X	X			X
Cobalt, total	X	X			
Fluoride, total					
Lithium	X	X	X		X
pH	X	X	X	X	X
Sulfate, total	X	X	X		
Total Dissolved Solids	X	X	X		

C) Specify whether there have been any exceedances of the groundwater protection standards for one or more constituents listed in Section 845.600;

Pursuant to Section 845.120, "Exceedance of the groundwater protection standard" means:

For existing CCR surface impoundments and inactive CCR surface impoundments:

- an analytical result with a concentration greater than the numerical value of the constituents listed in Section 845.600(a), in a down gradient well; or
- when the up gradient background concentration of a constituent exceeds the numerical value listed in Section 845.600(a), an analytical result with a concentration at a statistically significant level above the up gradient background concentration, in a down gradient well.

Based upon this evaluation, groundwater monitoring data for 2024 exhibits a SSI of the groundwater protection standards (GWPS) for multiple constituents listed in Section 845.600.

D) Identify those constituents with exceedances of the groundwater protection standards in Section 845.600 and the names of the monitoring wells associated with the exceedance;

The constituents that exhibit an SSI of a GWPS in 2024 are:

Parameter	*AP-1*	*AP-2*	*AP-3*	*AP-4*	*AP-5*	*AP-6*	*AP-7*	*AP-8*	*AP-9*	*AP-10*	*AP-11*	*AP-12*	*AP-13*	*AP-14*	*RW-3*
Arsenic, total							*X*	*X*							*X*
Boron, total	*X*	*X*	*X*							*X*				*X*	
Calcium, total	*X*	*X*										*X*		*X*	
Cobalt, total		*X*	*X*												
pH		*X*	*X*												
Sulfate, total	*X*	*X*	*X*									*X*		*X*	
Total Dissolved Solids	*X*											*X*		*X*	

Parameter	*T-1*	*T-2*	*T-4*	*T-5*	*T-6*
Calcium, total		*X*			
Chloride, total	*X*	*X*			
Total Dissolved Solids		*X*			

E) Provide the date when the assessment of corrective measures was initiated for the CCR surface impoundment;

The assessment of corrective measures was initiated May 2021.

F) Provide the date when the assessment of corrective measures was completed for the CCR surface impoundment

An assessment of alternatives containing an assessment of corrective measures and closure alternatives analysis was completed and posted on the facility's CCR compliance website on October 25, 2021. A public meeting occurred on December 2, 2021 to present the closure alternatives and corrective action analysis and to receive and respond to public comments. Based on the assessment of closure alternatives it has been determined that closure-in-place with a final cover system is most appropriate.

As provided in Section 845.660(e), the owner/operator may combine the corrective measures assessment and the closure alternatives analysis into one assessment of alternatives. The groundwater monitoring program has identified constituent concentrations in downgradient wells that require implementation of assessment of corrective measures. The facility anticipates conducting closure activities simultaneously with corrective action based on results from groundwater sampling and analyses.

G) Specify whether a remedy was selected under Section 845.670 during the current annual reporting period, and if so, the date of remedy selection; and

Pursuant to Section 845.710 closure of the surface impoundments may be completed by either:

- leaving the CCR in place and installing a final cover system, or;
- through removal of the CCR and decontamination of the surface impoundments.

At this time, CWLP has chosen closure in place with a final cover system as the most appropriate remedy. CWLP submitted a construction permit application for closure by installing a final cover system pursuant to Section 845.750 on February 1, 2022. CWLP received a review letter from the Illinois EPA dated October 10, 2023. CWLP provided Illinois EPA responses to the review letter on September 9, 2024 and October 30, 2024.

H) Specify whether remedial activities were initiated or are ongoing under Section 845.780 during the current annual reporting period.

In April 2019, CWLP submitted notification of intent to comply with the Alternative Closure Requirements of 40 CFR 257.103(a) since no alternative disposal capacity is currently available. Since then, CWLP has shut down Dallman Units 31, 32 and 33 and has completed the relocation of the lime ponds. All CCR and non-CCR waste streams ceased flowing into the impoundments since October 2023. While it has been CWLP's intent to commence closure of the Lakeside Ash Pond and the Dallman Ash Pond with the completion of the new lime pond processing area, closure of the CCR ash impoundments cannot begin until a closure construction permit is issued by IEPA. CWLP submitted an Operating Permit Application to the Illinois EPA on October 28,

2021 and a Construction Permit Application to the Illinois EPA on February 1, 2022. CWLP provided Illinois EPA responses to the review letter on September 9, 2024 and October 30, 2024.

2. GROUNDWATER MONITORING PROGRAM

As required Section 845.650(a), CWLP prepared and placed into the facility record a Groundwater Monitoring Program for the CCR surface impoundments on October 28, 2021. The GMP was updated in September 2024 and provided to Illinois EPA as part of the review letter response on September 9, 2024. The present groundwater monitoring network includes two upgradient wells (wells AP-4 and AP-5), nine downgradient wells (RW-3, AP-1R, AP-2A, AP-3, AP-6, AP-7, AP-8, AP-10 and AP-14) and ten compliance boundary wells (AP-7, AP-9, AP-11, AP-12, AP-13, T-1, T-2, T-4, T-5 and T-6). Monitoring wells T-1, T-2, T-4, T-5 and T-6 were installed in April and May of 2024. The well locations are depicted in Figure 2.

A Groundwater Monitoring System Certification has been provided for the Groundwater Monitoring Program, placed in the site record and uploaded to the facility Illinois CCR Compliance website - https://www.cwlp.com/IllinoisCCRCompliance.aspx.

The following sections of the report address the annual groundwater monitoring and corrective action report requirements outlined in Section 845(e)(2) and (3).

3. SECTION 845.610(e)(2): KEY ACTIONS, PROBLEMS ENCOUNTERED, AND KEY ACTIVITIES FOR 2024

3.1 Key Actions

The following items identify key actions that occurred in 2024 specifically related to the Groundwater Monitoring Program.

3.1.1 Assessment Monitoring

In accordance with Section 845.660(a) CWLP has initiated an assessment of corrective measures in response to the statistically significant increase (SSI) over background concentrations or the groundwater quality standards for one or more parameters listed in Section 845.600(a). Pursuant to Section 845.660(b), CWLP shall continue to monitor groundwater in accordance with the monitoring program as specified in Section 845.650.

Assessment monitoring, which includes all Section 845.600(a) parameters, calcium and turbidity, continued throughout 2024 for all wells in the groundwater monitoring system. A summary of the 2024 groundwater analytical reports and field sampling notes are included in Appendix C. The chemical analyses results are summarized in Table 1.

3.1.2 Assessment Monitoring Investigation

Pursuant to Section 845.650(d)(1), the nature and extent of affected groundwater must be determined such that potential remedies can be evaluated and selected, if necessary. Characterization of the nature and extent of affected groundwater is regulated pursuant to Section 845.650(d)(1)(A-D).

Seven wells were installed in February 2021 to augment the monitor well network and evaluate exceedances of the GWPSs, all in conformance with Section 845.650(d)(1). Wells AP-10 and AP-14 were installed along the west side of the impoundments and compliance boundary wells AP-9, AP-11, AP-12 and AP-13 were installed west of the creek.

Five additional wells were installed north and west of the creek in April and May 2024. These wells are identified as T-1, T-2, T-4, T-5 and T-6 (see Figure 3).

GWPS exceedances were observed and confirmed in downgradient wells (AP-1R, AP-2A, AP-3, AP-7, AP-8, AP-10, AP-14, RW-3, T-1 and T-2) and compliance boundary well (AP-12) during the 2024 quarterly groundwater sampling events (see Table 2).

Pursuant to 35 Ill. Adm. Code 845.650(d) CWLP has submitted notification of the exceedances of the GWPS to the Illinois EPA and posting each notification to their Illinois EPA CCR Compliance web page (https://www.cwlp.com/IllinoisCCRCompliance.aspx).

An alternate source demonstration pursuant to 35 Ill. Adm. Code 845.650(e) was submitted to the Illinois EPA on October 28, 2024 to address the exceedances observed at monitoring well AP-7. Illinois EPA issued a letter of non-concurrence on November 14, 2024 citing three data gaps. CWLP responded on December 9, 2024 with supplemental information to address the cited data gaps. Illinois EPA issued a non-concurrence letter on January 9, 2025 citing 35 Il Adm. Code 845.650(e)(6) does not allow for resubmittal of an ASD. CWLP is at an impasse as the requirement to initiate an assessment of corrective measures per 35 Ill Adm. Code 845.660 has already been completed and submitted to Illinois EPA as part of the Closure Construction permit application on February 1, 2022 which is still under review by Illinois EPA.

The remaining exceedances (i.e., at wells AP-1R, AP-2A, AP-3, AP-10, AP-14 and RW-3) have been delineated pursuant to 35 Ill. Adm. Code 845.650(d)(1).

Assessment monitoring data collected for the 2024 quarterly sampling events are provided in tabular format in Table 1. The data includes the sample dates and identifies the Section 845.600 parameters.

Assessment monitoring shall continue at the CWLP CCR surface impoundments pursuant to Section 845.660(b).

3.2 Assessment of Corrective Measures

As provided in Section 845.660(e), the owner/operator may combine the assessment of corrective measures and the closure analysis into one assessment of closure alternatives. The groundwater monitoring program has identified constituent concentrations in downgradient wells that require implementation of assessment of corrective measures. The facility anticipates conducting closure activities simultaneously with corrective action based on results from groundwater sampling and analyses. The assessment of corrective measures has been conducted pursuant to Section 845.660 and is incorporated into the assessment of alternatives pursuant to Section 845.660(e).

Pursuant to Section 845.700(b) the surface impoundments must either retrofit and/or close, which are the long term corrective measures. The closure alternative analysis was completed and posted to the facility website on October 25, 2021. A public meeting was held on December 2, 2021 to present the closure alternatives assessment and assessment of corrective measures and to receive and respond to public comments. Based on the assessment of closure alternatives it has been determined that closure-in-place with a final cover system is most appropriate. Once the ash impoundments are capped, it will take approximately 13 years to achieve the groundwater protection standards.

Both of these assessments were submitted to the Illinois EPA on February 1, 2022 as part of the closure construction permit application prepared pursuant to Section 845.700(c), and containing a final closure plan in accordance with the application schedule under Section 845.700(h). CWLP provided Illinois EPA responses to the review letter on September 9, 2024 and October 30, 2024.

3.3 Problems Encountered

All activities which occurred in 2024 are discussed in Section 3.1 and 3.2 above. No problems were encountered.

3.4 Key Activities for Upcoming Year (2025)

Assessment monitoring shall continue at the CWLP CCR surface impoundments pursuant to Section 845.660(b).

Closure of the CCR ash impoundments cannot begin until a closure construction permit is issued by IEPA. CWLP submitted an Operating Permit Application to the Illinois EPA on October 28, 2021 and a Construction Permit Application to the Illinois EPA on February 1, 2022. The Illinois EPA has provided comments in response to the applications; a meeting was held November 16, 2023 to discuss the comments, in part. CWLP has begun the process of modifying their NPDES

permit to allow dewatering of the surface impoundments in preparation of closure with a final cover system. It is expected that additional information will be submitted in 2025 that may affect the impoundment closure design and process.

CWLP is evaluating porewater data collected from within the CCR surface impoundments as well as information obtained from the installation of monitoring wells T1, T2, T4, T5 and T6 to determine the possibility of preparing an Alternate Source Demonstration for some of the observed GWPS exceedances.

4. SECTION 845.610(e)(3)(A-F)

Additional requirements for the Annual Groundwater Monitoring and Corrective Action Report are detailed in Section 854.610(e)(3)(A-F). Each of the requirements is reproduced below along with the response.

(A) - A map, aerial image, or diagram showing the CCR surface impoundment, all background (or upgradient) and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring program for the CCR surface impoundment, and a visual delineation of any exceedances of the groundwater protection standards.

Maps depicting the CCR surface impoundments, all background and downgradient monitoring wells and delineation of the identified exceedances of the groundwater protection standards are provided in Appendix A.

(B) - Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.

Five additional CCR surface impoundment monitoring wells CCR T-1, T-2, T-4, T-5 and T-6 were installed north and west of the creek in April and May 2024.

(C) - A potentiometric surface map for each groundwater elevation sampling event required by Section 845.650(b)(2).

Potentiometric surface maps for each of the monthly sampling events are provided in Appendix B.

As depicted on the potentiometric surface maps, groundwater generally flows radially from the CCR surface impoundment locations with an overall northerly groundwater flow.

(D) - In addition to all the monitoring data obtained under this Subpart, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, and the dates the samples were collected.

Pursuant to Section 845.650(b)(1), groundwater samples are collected on a quarterly basis. The laboratory analytical reports for the parameters at Section 845.600(a), calcium, and turbidity for each of the quarterly groundwater sampling events are provided in Appendix C.

(E) - A narrative discussion of any statistically significant increases over background levels for the constituents listed in Section 845.600; and

Sampling and analyses has occurred at each of the wells listed above for the parameters identified in Section 845.600(a)(1) including calcium and turbidity. The results of 2024 quarterly sampling indicate exceedance of the GWPSs for seven parameters: arsenic, boron, calcium, pH, sulfate and TDS. A summary table of the exceedances is provided as Table 2. The exceedances of the GWPSs for these parameters are discussed below.

Arsenic, total
Confirmed exceedances of the GWPS occurred for total arsenic (0.0375 mg/L) at downgradient groundwater monitoring wells AP-7, AP-8 and RW-3 during 2024. A revised background concentration was established for total arsenic in 2024 resulting in a lower background value.

The total arsenic concentrations at well AP-8 ranged from 0.0386 to 0.0461 mg/L, respectively. Total arsenic concentrations at well AP-8 have been above the recently derived background groundwater concentration with no upward or downward trend. The concentrations at this location appear to be related to some spatial variation.

The total arsenic concentrations at well RW-3 ranged from 0.107 to 0.306 mg/L, respectively. Total arsenic concentrations at well RW-3 have been above the background groundwater concentration with no upward or downward trend with isolated spikes in concentrations. These increases were observed in the first quarter 2020 and the fourth quarter 2023 prior to return to normal concentrations. The concentrations at this location appear to be related to some spatial variation. Total arsenic concentrations are typically low to non-detect (<0.025 mg/L) in other downgradient groundwater monitoring wells. There are two wells located downgradient/north of RW-3. These wells are AP-6 and compliance boundary well AP-7.

The total arsenic concentrations at groundwater monitoring well AP-6 installed at a distance of 83 feet downgradient of RW-3, were non-detect (<0.25 mg/L) for the first and second quarters of

2023 and 0.004 mg/L and 0.0183 mg/L from the third quarter 2023 through the fourth quarter 2024.

Compliance boundary well AP-7 is located further north of both AP-6 and RW-3, at a distance of 298 feet downgradient of RW-3. The total arsenic concentrations at compliance boundary well AP-7 ranged from 0.0395 to 0.0947 mg/L. Total arsenic concentrations at well AP-7 have historically been above the statistically derived background groundwater concentration with no upward or downward trend. The concentrations at this location also appear to be related to some spatial variation.

Alternate source demonstrations were submitted October 28 and December 9, 2024 for the total arsenic at well AP-7. The results of the demonstrations identified the source of arsenic detected in AP- 7 to be north of Sugar Creek, likely due to natural geochemistry within the monitored zone. Groundwater movement at AP-7 is from north to south towards the impoundments, not from the impoundments, indicating the impoundments are not the source of the arsenic.

Boron, total

Confirmed exceedances of the total boron GWPS (2 mg/L) occurred at downgradient wells AP-1R, AP-2A, AP-3, AP-10 and AP-14 during each of the quarterly groundwater sampling events for 2024.

The concentrations of total boron at well AP-1R ranged from 22.7 to 23.6 mg/L, from 3.1 to 3.52 mg/L at well AP-2A, 14.5 to 14.9 mg/L at well AP-3, 3.71 to 3.95 mg/L at well AP-10, and 20.0 to 22.3 mg/L at well AP-14.

Groundwater monitoring wells AP-7, AP-9, AP-11, AP-12 and AP-13 are located adjacent to the impoundments but on the opposite side of Sugar Creek. The analytical results for these compliance boundary wells demonstrate that the GWPS for total boron is not exceeded beyond the limits of Sugar Creek in this area.

The concentrations of total boron detected at wells AP-1R, AP-2A, AP-3, AP-10 and AP-14 have consistently been above the GWPS with no upward or downward trend.

Calcium, total

There were confirmed exceedances of the GWPS for total calcium (176.63 mg/L) at downgradient groundwater monitoring wells AP-1R, AP-2A, AP-12, AP-14, and T-2 during 2024. The calcium concentrations at AP-1R ranged from 237 to 250 mg/L, 194 to 222 mg/L at AP-2A, 203 to 258 mg/L at AP-12, and 237 to 263 mg/L at well AP-14. The total calcium concentration at T-2 ranged from 150 to 218 mg/L.

Total calcium concentrations at wells AP-1R, AP-2A, AP-12, AP-14 and T-2 are consistent with historical concentrations; there does not appear to be any upward or downward trend. It should be pointed out that the concentrations at AP-12, located on the west side of Sugar Creek opposite the CCR surface impoundment are consistently higher than the concentrations of calcium observed in monitoring wells located adjacent to the CCR surface impoundments. This supports the September 12, 2022 alternate source demonstration that the GWPS exceedances for total calcium observed at compliance boundary well AP-12 are likely a result of an off-site source. In May 2024, CWLP installed 5 additional groundwater monitoring wells around the periphery of the facility to further evaluation groundwater quality in support of updating the alternate source demonstration.

Cobalt, total

There were confirmed exceedances of the GWPS for total cobalt (0.006 mg/L) at downgradient groundwater monitoring wells AP-2A and AP-3 during 2024. At AP-2A, cobalt concentrations ranged from 0.0068 to 0.0102 mg/L. At AP-3 total cobalt concentrations ranged from below the method detection limit of 0.005 up to 0.0071 mg/L.

Total cobalt concentrations at wells AP-2A and AP-3 are consistent with historical concentrations. There does not appear to be any upward or downward trend.

pH (Field)

There were confirmed exceedances of the field measured water quality parameter pH GWPS (6.5 to 9 pH units) at wells AP-2A and AP-3. At well AP-2A, pH values ranged from 6.21 to 6.58 s.u. during 2024. At well AP-3 pH for the first and second quarters of 2024 were 6.42 and 6.45 s.u. with the pH returning to the GWPS the pH values ranged from 6.2 to 6.55. There is no upward or downward trend in pH for the groundwater monitoring wells and the fluctuation is attributed to season fluctuations.

Sulfate, total

There were confirmed exceedances of the GWPS for total sulfate (400 mg/L) at downgradient groundwater monitoring wells AP-1R, AP-2A, AP-3, AP-12 and AP-14 during year 2024 groundwater sampling events. The concentrations at well AP-1R ranged from 790 to 849 mg/L, 393 to 440 mg/L at well AP-2A, 493 to 558 mg/L at AP-3, m 457 to 612 mg/L at well AP-12 , and 679 to 909 mg/L at well AP-14 .

Total sulfate concentrations at wells in wells AP-1R, AP-2A, AP-3, AP-12 and AP-14 are consistent with historical concentrations. There does not appear to be any upward or downward trend.

Total Dissolved Solids

There were confirmed exceedances of the GWPS (1200 mg/L) for total dissolved solids (TDS) at downgradient monitoring wells AP-1R, AP-12, AP-14 and T-2 for the 2024 review period. TDS concentrations at AP-1R ranged from 1400 to 1640 mg/L, 1290 to 1670 mg/Lat well AP-12, 1480 to 1840 mg/L at well AP-14, and 1060 to 1580 mg/L at well T-2 .

TDS concentrations at well AP-1R has historically been elevated. TDS is the sum of the cations and anions in the water. TDS provides a qualitative measure of the amount of dissolved ions but not the nature or ion relationships. The elevated TDS in these wells is likely an indicator of the higher boron, calcium, chloride and sulfate concentrations detected in these wells.

The elevated TDS concentrations at compliance boundary wells AP-12 and T-2 are similarly attributed to elevated cation and anion concentrations in groundwater. However, the TDS concentrations at AP-12 and T-2 do not appear to be attributed to the CCR surface impoundments but to an offsite sources west of Sugar Creek.

(F) - Other information required to be included in the annual report as specified in 35 Ill. Adm. Code 845.Subpart F.

All applicable information has been provided in the narrative above.

5. CONCLUSION

This annual groundwater monitoring and corrective action report has been provided in accordance with Section 845.550(a)(3). The next annual report for monitoring year 2025 will be provided by January 31, 2026.

6. STATEMENT

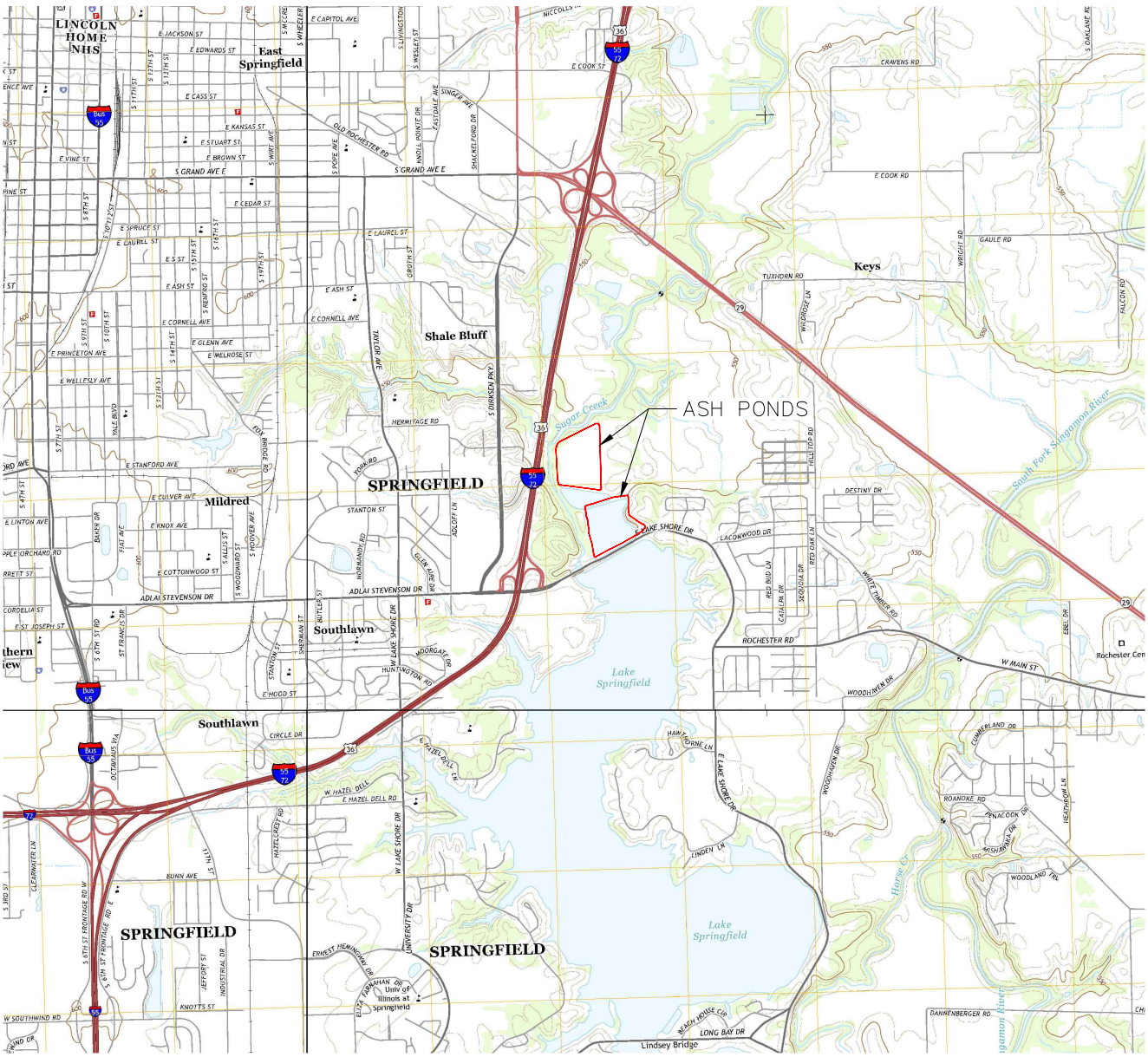
This Annual Groundwater Monitoring and Corrective Action Report for Coal Combustion Residuals Surface Impoundments was completed for CWLP by Andrews Engineering, Inc. in accordance with the requirements under 35 IAC Part 845.610(e).

Karl W. Finke, P.E. — Date: 1/27/25



FIGURES

C:\Civil 3D Projects\Springfield CWLP\DWG\2025\Site Map.dwg Tab: Layout1



NOTE:
BACKGROUND IMAGE COURTESY OF UNITED STATES GEOLOGICAL SURVEY.

ANDREWS ENGINEERING
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO

APPROVED BY: KWF	DESIGNED BY: KWF	DRAWN BY: BCK

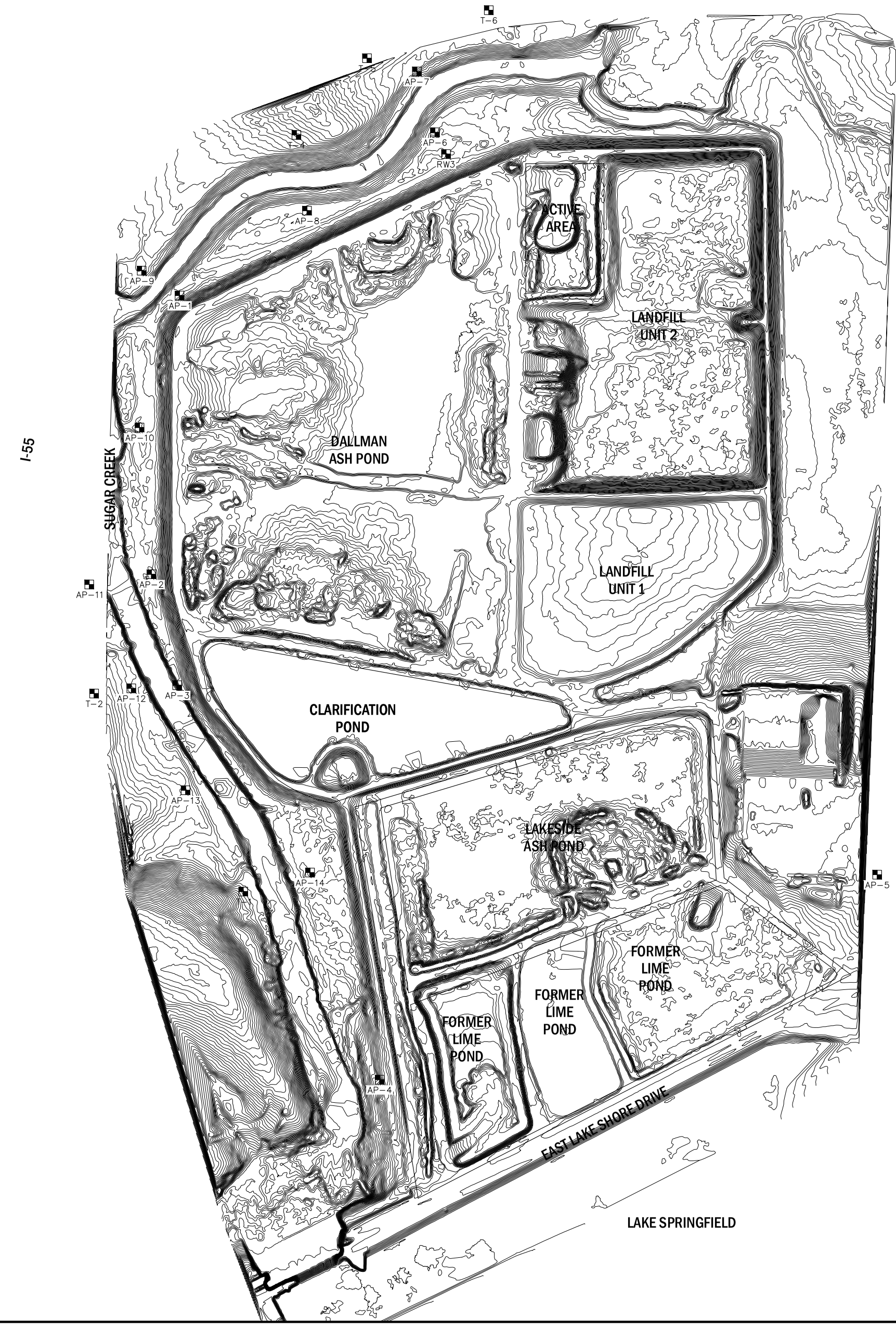
SITE LOCATION

PLANS PREPARED FOR
CITY, WATER, LIGHT & POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2025
PROJECT ID: 240227/0006
SHEET NUMBER:
FIGURE 1

© 2024 Andrews Engineering, Inc.

Tab: SITE DETAILS MAP Last Saved: January 16, 2025, by Ben Karpus Plotted: Monday, January 20, 2025 1:35:34 PM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2022\PMAPS\Potentiometric Surface Maps.dwg



LEGEND

MONITORING WELL

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: JUNE 20, 2023).

N

0 200 400 800

SCALE: IN FEET

NO.	DATE	REVISION DESCRIPTION	BY

ANDREWS ENGINEERING
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO

APPROVED BY: BJH DESIGNED BY: MTH DRAWN BY: BCK

SITE DETAILS MAP

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2025

PROJECT ID: 240338/0014

SHEET NUMBER:

FIG 2

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TABLES

TABLE 1:
2024 GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-2	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	0.0021	< 0.001	< 0.001
AP-3	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-4	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-5	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-6	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	0.0021
AP-7	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	0.0016	< 0.001
AP-8	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-9	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	0.0017	< 0.001
AP-10	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	0.0014	< 0.001	< 0.001
AP-11	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-12	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	0.0018	< 0.001	< 0.001
AP-13	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
AP-14	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
RW-3	Antimony, total	mg/L	0.006	0.001	0.006	< 0.001	< 0.001	< 0.001	< 0.001
T-1	Antimony, total	mg/L	0.006	0.001	0.006		< 0.001	< 0.001	< 0.001
T-2	Antimony, total	mg/L	0.006	0.001	0.006		< 0.001	< 0.001	< 0.001
T-4	Antimony, total	mg/L	0.006	0.001	0.006		0.0013	< 0.001	< 0.001
T-5	Antimony, total	mg/L	0.006	0.001	0.006		< 0.001	< 0.001	< 0.001
T-6	Antimony, total	mg/L	0.006	0.001	0.006		< 0.001	< 0.001	< 0.001
AP-1	Arsenic, total	mg/L	0.01	0.0375	0.0375	< 0.001	< 0.001	< 0.001	< 0.001
AP-2	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0027	0.002	0.0031	0.0016
AP-3	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0101	0.0021	0.008	0.0182
AP-4	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0375	0.0229	0.0207	0.0246
AP-5	Arsenic, total	mg/L	0.01	0.0375	0.0375	< 0.001	< 0.001	< 0.001	< 0.001
AP-6	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0068	0.0121	0.0074	0.0108
AP-7	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0555	0.0395	0.0438	0.0947
AP-8	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0426	0.0461	0.0414	0.0386
AP-9	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0037	0.0024	0.0028	0.0019
AP-10	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0011	< 0.001	< 0.001	0.0011
AP-11	Arsenic, total	mg/L	0.01	0.0375	0.0375	< 0.001	0.0037	< 0.001	< 0.001
AP-12	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0013	0.0038	0.0015	< 0.001
AP-13	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0028	0.0032	0.0029	0.0038
AP-14	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0039	0.0019	0.0016	0.0022
RW-3	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.306	0.188	0.107	0.214
T-1	Arsenic, total	mg/L	0.01	0.0375	0.0375		< 0.001	0.0048	0.0019
T-2	Arsenic, total	mg/L	0.01	0.0375	0.0375		0.0023	0.0053	0.006
T-4	Arsenic, total	mg/L	0.01	0.0375	0.0375		0.0013	0.0055	0.0055
T-5	Arsenic, total	mg/L	0.01	0.0375	0.0375		< 0.001	< 0.001	0.0016
T-6	Arsenic, total	mg/L	0.01	0.0375	0.0375		0.0076	0.0108	0.0158
AP-1	Barium, total	mg/L	2	0.51918	2	0.292	0.3	0.269	0.269
AP-2	Barium, total	mg/L	2	0.51918	2	0.0678	0.0607	0.0751	0.0727
AP-3	Barium, total	mg/L	2	0.51918	2	0.095	0.0767	0.102	0.132
AP-4	Barium, total	mg/L	2	0.51918	2	0.39	0.407	0.374	0.39
AP-5	Barium, total	mg/L	2	0.51918	2	0.0515	0.051	0.0521	0.0525
AP-6	Barium, total	mg/L	2	0.51918	2	0.119	0.147	0.152	0.154
AP-7	Barium, total	mg/L	2	0.51918	2	0.118	0.0915	0.108	0.148
AP-8	Barium, total	mg/L	2	0.51918	2	0.374	0.373	0.407	0.364
AP-9	Barium, total	mg/L	2	0.51918	2	0.378	0.36	0.405	0.434
AP-10	Barium, total	mg/L	2	0.51918	2	0.613	0.605	0.638	0.628
AP-11	Barium, total	mg/L	2	0.51918	2	0.154	0.238	0.11	0.122
AP-12	Barium, total	mg/L	2	0.51918	2	0.0569	0.0707	0.0515	0.0458
AP-13	Barium, total	mg/L	2	0.51918	2	0.116	0.131	0.127	0.12
AP-14	Barium, total	mg/L	2	0.51918	2	0.0422	0.0329	0.0371	0.0413
RW-3	Barium, total	mg/L	2	0.51918	2	0.166	0.143	0.146	0.18
T-1	Barium, total	mg/L	2	0.51918	2		0.0862	0.118	0.0707
T-2	Barium, total	mg/L	2	0.51918	2		0.0771	0.246	0.225
T-4	Barium, total	mg/L	2	0.51918	2		0.0382	0.0562	0.0578
T-5	Barium, total	mg/L	2	0.51918	2		0.0478	0.0538	0.0564
T-6	Barium, total	mg/L	2	0.51918	2		0.314	0.323	0.306

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-2	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-3	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-4	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-5	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-6	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-7	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-8	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-9	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-10	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-11	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-12	Beryllium, total	mg/L	0.004	0.0025	0.004	0.0006	< 0.0005	< 0.0005	< 0.0005
AP-13	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
AP-14	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
RW-3	Beryllium, total	mg/L	0.004	0.0025	0.004	< 0.0005	< 0.0005	< 0.0005	< 0.0005
T-1	Beryllium, total	mg/L	0.004	0.0025	0.004		< 0.0005	< 0.0005	< 0.0005
T-2	Beryllium, total	mg/L	0.004	0.0025	0.004		< 0.0005	< 0.0005	< 0.0005
T-4	Beryllium, total	mg/L	0.004	0.0025	0.004		< 0.0005	< 0.0005	< 0.0005
T-5	Beryllium, total	mg/L	0.004	0.0025	0.004		< 0.0005	< 0.0005	< 0.0005
T-6	Beryllium, total	mg/L	0.004	0.0025	0.004		< 0.0005	< 0.0005	< 0.0005
AP-1	Boron, total	mg/L	2	0.14973	2	23.5	22.7	22.9	23.6
AP-2	Boron, total	mg/L	2	0.14973	2	3.38	3.43	3.1	3.52
AP-3	Boron, total	mg/L	2	0.14973	2	14.8	14.5	14.6	14.9
AP-4	Boron, total	mg/L	2	0.14973	2	0.0871	0.0834	0.0825	0.082
AP-5	Boron, total	mg/L	2	0.14973	2	0.0434	0.0269	0.0339	0.0326
AP-6	Boron, total	mg/L	2	0.14973	2	0.171	0.238	0.25	0.248
AP-7	Boron, total	mg/L	2	0.14973	2	0.173	0.0978	0.244	0.332
AP-8	Boron, total	mg/L	2	0.14973	2	0.0866	0.0877	0.0855	0.084
AP-9	Boron, total	mg/L	2	0.14973	2	0.0932	0.0988	0.0979	0.0995
AP-10	Boron, total	mg/L	2	0.14973	2	3.71	3.92	3.9	3.95
AP-11	Boron, total	mg/L	2	0.14973	2	0.232	0.0555	0.211	0.261
AP-12	Boron, total	mg/L	2	0.14973	2	0.021	< 0.02	0.0241	< 0.02
AP-13	Boron, total	mg/L	2	0.14973	2	0.0356	0.0343	0.0357	< 0.02
AP-14	Boron, total	mg/L	2	0.14973	2	21.6	22.3	20	21
RW-3	Boron, total	mg/L	2	0.14973	2	0.116	0.154	0.122	0.137
T-1	Boron, total	mg/L	2	0.14973	2		0.227	0.141	0.15
T-2	Boron, total	mg/L	2	0.14973	2		0.189	0.0718	0.0507
T-4	Boron, total	mg/L	2	0.14973	2		0.0304	0.0537	0.0565
T-5	Boron, total	mg/L	2	0.14973	2		0.0639	0.0843	0.0791
T-6	Boron, total	mg/L	2	0.14973	2		0.201	0.214	0.21
AP-1	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-2	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-3	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-4	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-5	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-6	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-7	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-8	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-9	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-10	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-11	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-12	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-13	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
AP-14	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
RW-3	Cadmium, total	mg/L	0.005	0.0025	0.005	< 0.002	< 0.002	< 0.002	< 0.002
T-1	Cadmium, total	mg/L	0.005	0.0025	0.005		< 0.002	< 0.002	< 0.002
T-2	Cadmium, total	mg/L	0.005	0.0025	0.005		< 0.002	< 0.002	< 0.002
T-4	Cadmium, total	mg/L	0.005	0.0025	0.005		< 0.002	< 0.002	< 0.002
T-5	Cadmium, total	mg/L	0.005	0.0025	0.005		< 0.002	< 0.002	< 0.002
T-6	Cadmium, total	mg/L	0.005	0.0025	0.005		< 0.002	< 0.002	< 0.002

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Calcium, total	mg/L	Background	181.6	181.6	250	248	244	237
AP-2	Calcium, total	mg/L	Background	181.6	181.6	210	194	206	222
AP-3	Calcium, total	mg/L	Background	181.6	181.6	177	176	175	185
AP-4	Calcium, total	mg/L	Background	181.6	181.6	119	123	118	< 0.1
AP-5	Calcium, total	mg/L	Background	181.6	181.6	96.7	94.1	96.3	92.6
AP-6	Calcium, total	mg/L	Background	181.6	181.6	61.4	65.8	65.6	66
AP-7	Calcium, total	mg/L	Background	181.6	181.6	55.6	52.3	59.5	61.9
AP-8	Calcium, total	mg/L	Background	181.6	181.6	99.3	99.4	89.5	98.4
AP-9	Calcium, total	mg/L	Background	181.6	181.6	97.9	101	103	104
AP-10	Calcium, total	mg/L	Background	181.6	181.6	141	141	133	140
AP-11	Calcium, total	mg/L	Background	181.6	181.6	150	217	126	124
AP-12	Calcium, total	mg/L	Background	181.6	181.6	228	240	258	203
AP-13	Calcium, total	mg/L	Background	181.6	181.6	101	109	106	103
AP-14	Calcium, total	mg/L	Background	181.6	181.6	263	245	237	253
RW-3	Calcium, total	mg/L	Background	181.6	181.6	63.4	67.3	63.2	67.2
T-1	Calcium, total	mg/L	Background	181.6	181.6		105	183	172
T-2	Calcium, total	mg/L	Background	181.6	181.6		150	218	211
T-4	Calcium, total	mg/L	Background	181.6	181.6		62.7	77.3	96.8
T-5	Calcium, total	mg/L	Background	181.6	181.6		65.4	64.6	70.3
T-6	Calcium, total	mg/L	Background	181.6	181.6		91.3	84.3	91.4
AP-1	Chloride, total	mg/L	200	12.3	200	54	29	59	52.1
AP-2	Chloride, total	mg/L	200	12.3	200	39	36	39	35.1
AP-3	Chloride, total	mg/L	200	12.3	200	54	53	55.9	59.5
AP-4	Chloride, total	mg/L	200	12.3	200	13	13	15	12.3
AP-5	Chloride, total	mg/L	200	12.3	200	8	8	8	7.59
AP-6	Chloride, total	mg/L	200	12.3	200	30	33	37	34.5
AP-7	Chloride, total	mg/L	200	12.3	200	42	43	50	62.1
AP-8	Chloride, total	mg/L	200	12.3	200	24	26	35	23.2
AP-9	Chloride, total	mg/L	200	12.3	200	25	39	29	23.6
AP-10	Chloride, total	mg/L	200	12.3	200	27	27	30	25.7
AP-11	Chloride, total	mg/L	200	12.3	200	122	429	90	91
AP-12	Chloride, total	mg/L	200	12.3	200	115	121	136	120
AP-13	Chloride, total	mg/L	200	12.3	200	27	26	27	25.8
AP-14	Chloride, total	mg/L	200	12.3	200	82	83	92	94
RW-3	Chloride, total	mg/L	200	12.3	200	27	28	29	25.1
T-1	Chloride, total	mg/L	200	12.3	200		49	259	233
T-2	Chloride, total	mg/L	200	12.3	200		173	447	509
T-4	Chloride, total	mg/L	200	12.3	200		< 4	< 4	< 5
T-5	Chloride, total	mg/L	200	12.3	200		< 4	< 4	< 5
T-6	Chloride, total	mg/L	200	12.3	200		21	24	19.4
AP-1	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-2	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-3	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-4	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-5	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-6	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-7	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-8	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-9	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-10	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-11	Chromium, total	mg/L	0.1	0.0653	0.1	0.0081	< 0.005	< 0.005	< 0.005
AP-12	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	0.0053	< 0.005	< 0.005
AP-13	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
AP-14	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
RW-3	Chromium, total	mg/L	0.1	0.0653	0.1	< 0.005	< 0.005	< 0.005	< 0.005
T-1	Chromium, total	mg/L	0.1	0.0653	0.1		< 0.005	0.0096	< 0.005
T-2	Chromium, total	mg/L	0.1	0.0653	0.1		< 0.005	< 0.005	< 0.005
T-4	Chromium, total	mg/L	0.1	0.0653	0.1		< 0.005	< 0.005	< 0.005
T-5	Chromium, total	mg/L	0.1	0.0653	0.1		< 0.005	< 0.005	< 0.005
T-6	Chromium, total	mg/L	0.1	0.0653	0.1		< 0.005	< 0.005	< 0.005

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-2	Cobalt, total	mg/L	0.006	0.0052	0.006	0.0068	0.0102	0.0073	0.0085
AP-3	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	0.0065	0.0071	< 0.005
AP-4	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-5	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-6	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-7	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-8	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-9	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-10	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-11	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-12	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	0.0054	< 0.005	< 0.005
AP-13	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
AP-14	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
RW-3	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	< 0.005	< 0.005	< 0.005
T-1	Cobalt, total	mg/L	0.006	0.0052	0.006		< 0.005	0.0063	< 0.005
T-2	Cobalt, total	mg/L	0.006	0.0052	0.006		0.0075	< 0.005	< 0.005
T-4	Cobalt, total	mg/L	0.006	0.0052	0.006		< 0.005	0.005	< 0.005
T-5	Cobalt, total	mg/L	0.006	0.0052	0.006		< 0.005	< 0.005	< 0.005
T-6	Cobalt, total	mg/L	0.006	0.0052	0.006		< 0.005	< 0.005	< 0.005
AP-1	Fluoride, total	mg/L	4	0.5	4	0.18	0.19	0.2	< 0.5
AP-2	Fluoride, total	mg/L	4	0.5	4	0.21	0.23	0.25	< 0.5
AP-3	Fluoride, total	mg/L	4	0.5	4	0.17	0.19	< 0.5	< 0.5
AP-4	Fluoride, total	mg/L	4	0.5	4	0.16	0.13	0.15	< 0.5
AP-5	Fluoride, total	mg/L	4	0.5	4	0.28	0.29	0.32	< 0.5
AP-6	Fluoride, total	mg/L	4	0.5	4	0.37	0.48	0.56	< 0.5
AP-7	Fluoride, total	mg/L	4	0.5	4	0.44	0.38	0.46	< 0.5
AP-8	Fluoride, total	mg/L	4	0.5	4	0.26	0.28	0.33	< 0.5
AP-9	Fluoride, total	mg/L	4	0.5	4	0.26	0.21	0.26	< 0.5
AP-10	Fluoride, total	mg/L	4	0.5	4	0.29	0.28	0.32	< 0.5
AP-11	Fluoride, total	mg/L	4	0.5	4	0.22	0.22	0.21	< 0.5
AP-12	Fluoride, total	mg/L	4	0.5	4	0.19	0.16	0.19	< 0.5
AP-13	Fluoride, total	mg/L	4	0.5	4	0.24	0.2	0.22	< 0.5
AP-14	Fluoride, total	mg/L	4	0.5	4	0.3	0.24	0.28	< 0.5
RW-3	Fluoride, total	mg/L	4	0.5	4	0.37	0.4	0.43	< 0.5
T-1	Fluoride, total	mg/L	4	0.5	4		0.2	0.22	< 0.5
T-2	Fluoride, total	mg/L	4	0.5	4		0.24	0.23	< 0.5
T-4	Fluoride, total	mg/L	4	0.5	4		0.26	0.32	< 0.5
T-5	Fluoride, total	mg/L	4	0.5	4		0.18	0.22	< 0.5
T-6	Fluoride, total	mg/L	4	0.5	4		0.28	0.32	< 0.5
AP-1	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-2	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-3	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-4	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-5	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-6	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-7	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-8	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-9	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-10	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-11	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-12	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-13	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
AP-14	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
RW-3	Lead, total	mg/L	0.0075	0.0075	0.0075	< 0.015	< 0.015	< 0.0075	< 0.0075
T-1	Lead, total	mg/L	0.0075	0.0075	0.0075		< 0.015	< 0.0075	< 0.0075
T-2	Lead, total	mg/L	0.0075	0.0075	0.0075		< 0.015	< 0.0075	< 0.0075
T-4	Lead, total	mg/L	0.0075	0.0075	0.0075		< 0.015	< 0.0075	< 0.0075
T-5	Lead, total	mg/L	0.0075	0.0075	0.0075		< 0.015	< 0.0075	< 0.0075
T-6	Lead, total	mg/L	0.0075	0.0075	0.0075		< 0.015	< 0.0075	< 0.0075

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Lithium	mg/L	0.04	0.0124	0.04	0.0099	< 0.05	0.0103	0.0094
AP-2	Lithium	mg/L	0.04	0.0124	0.04	0.0059	< 0.05	0.0081	0.0068
AP-3	Lithium	mg/L	0.04	0.0124	0.04	0.0062	< 0.05	0.0064	0.0062
AP-4	Lithium	mg/L	0.04	0.0124	0.04	0.0076	< 0.05	0.0072	0.0077
AP-5	Lithium	mg/L	0.04	0.0124	0.04	< 0.005	< 0.05	0.0062	0.0043
AP-6	Lithium	mg/L	0.04	0.0124	0.04	< 0.005	< 0.05	0.0098	0.0104
AP-7	Lithium	mg/L	0.04	0.0124	0.04	< 0.005	< 0.05	0.0063	0.0079
AP-8	Lithium	mg/L	0.04	0.0124	0.04	0.0069	< 0.05	0.0075	0.0069
AP-9	Lithium	mg/L	0.04	0.0124	0.04	0.0059	< 0.05	0.0069	0.0066
AP-10	Lithium	mg/L	0.04	0.0124	0.04	0.009	< 0.05	0.0094	0.0101
AP-11	Lithium	mg/L	0.04	0.0124	0.04	< 0.005	< 0.05	0.0044	0.005
AP-12	Lithium	mg/L	0.04	0.0124	0.04	0.0064	< 0.05	0.0077	0.0065
AP-13	Lithium	mg/L	0.04	0.0124	0.04	0.0109	< 0.05	0.0124	0.012
AP-14	Lithium	mg/L	0.04	0.0124	0.04	0.0076	< 0.05	0.0078	0.0072
RW-3	Lithium	mg/L	0.04	0.0124	0.04	< 0.005	< 0.05	0.0038	0.0047
T-1	Lithium	mg/L	0.04	0.0124	0.04		< 0.05	0.0266	0.0199
T-2	Lithium	mg/L	0.04	0.0124	0.04		< 0.05	0.0394	0.0345
T-4	Lithium	mg/L	0.04	0.0124	0.04		< 0.05	0.0164	0.0161
T-5	Lithium	mg/L	0.04	0.0124	0.04		< 0.05	0.0095	0.0109
T-6	Lithium	mg/L	0.04	0.0124	0.04		< 0.05	0.0149	0.0134
AP-1	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-2	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-3	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-4	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-5	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-6	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-7	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-8	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-9	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-10	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-11	Mercury, total	mg/L	0.002	0.0005	0.002	0.00021	< 0.0002	< 0.0002	< 0.0002
AP-12	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-13	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
AP-14	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
RW-3	Mercury, total	mg/L	0.002	0.0005	0.002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
T-1	Mercury, total	mg/L	0.002	0.0005	0.002		< 0.0002	< 0.0002	< 0.0002
T-2	Mercury, total	mg/L	0.002	0.0005	0.002		< 0.0002	< 0.0002	< 0.0002
T-4	Mercury, total	mg/L	0.002	0.0005	0.002		< 0.0002	< 0.0002	< 0.0002
T-5	Mercury, total	mg/L	0.002	0.0005	0.002		< 0.0002	< 0.0002	< 0.0002
T-6	Mercury, total	mg/L	0.002	0.0005	0.002		< 0.0002	< 0.0002	< 0.0002
AP-1	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-2	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-3	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-4	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-5	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-6	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-7	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-8	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-9	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-10	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-11	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-12	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-13	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
AP-14	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
RW-3	Molybdenum, total	mg/L	0.1	0.025	0.1	< 0.01	< 0.01	< 0.01	< 0.01
T-1	Molybdenum, total	mg/L	0.1	0.025	0.1		< 0.01	< 0.01	< 0.01
T-2	Molybdenum, total	mg/L	0.1	0.025	0.1		< 0.01	< 0.01	< 0.01
T-4	Molybdenum, total	mg/L	0.1	0.025	0.1		< 0.01	< 0.01	< 0.01
T-5	Molybdenum, total	mg/L	0.1	0.025	0.1		< 0.01	< 0.01	< 0.01
T-6	Molybdenum, total	mg/L	0.1	0.025	0.1		< 0.01	< 0.01	< 0.01

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.51	6.31	6.7	6.54
AP-2	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.41	6.21	6.58	6.41
AP-3	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.55	6.36	6.2	6.48
AP-4	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.86	6.83	6.97	6.82
AP-5	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	7.01	6.99	7.07	6.9
AP-6	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.97	7.27	7.16	7
AP-7	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	7.15	7.15	7.2	7.17
AP-8	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.83	7.03	7.03	6.78
AP-9	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.82	6.75	6.89	6.8
AP-10	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.65	6.54	6.53	6.73
AP-11	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.45	6.75	6.44	6.66
AP-12	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.53	6.52	6.43	6.59
AP-13	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.73	6.7	6.59	6.67
AP-14	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.93	6.95	6.76	6.93
RW-3	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	7.1	6.7	7.23	7.13
T-1	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0		6.57	6.51	6.57
T-2	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0		6.51	6.37	6.54
T-4	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0		6.31	6.68	6.65
T-5	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0		6.62	6.86	6.82
T-6	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0		6.56	6.77	6.97
AP-1	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	1.23
AP-2	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-3	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 1	< 1
AP-4	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-5	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-6	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-7	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-8	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	2.57
AP-9	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	1.01
AP-10	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	1.61
AP-11	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	1.28	< 2	< 1
AP-12	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-13	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
AP-14	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	< 1
RW-3	Radium-226 + Radium-228	pCi/L	5	3.79	5	< 2	< 1	< 2	1.23
T-1	Radium-226 + Radium-228	pCi/L	5	3.79	5		< 1	< 2	< 1
T-2	Radium-226 + Radium-228	pCi/L	5	3.79	5		< 1	< 2	< 1
T-4	Radium-226 + Radium-228	pCi/L	5	3.79	5		< 1	< 2	< 1
T-5	Radium-226 + Radium-228	pCi/L	5	3.79	5		< 1	< 2	< 1
T-6	Radium-226 + Radium-228	pCi/L	5	3.79	5		< 1	< 2	1.08
AP-1	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-2	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-3	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-4	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-5	Selenium, total	mg/L	0.05	0.025	0.05	0.0011	< 0.001	< 0.001	< 0.001
AP-6	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	0.0022
AP-7	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-8	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-9	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-10	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-11	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-12	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-13	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
AP-14	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
RW-3	Selenium, total	mg/L	0.05	0.025	0.05	< 0.001	< 0.001	< 0.001	< 0.001
T-1	Selenium, total	mg/L	0.05	0.025	0.05		0.0042	< 0.001	< 0.001
T-2	Selenium, total	mg/L	0.05	0.025	0.05		0.0011	< 0.001	< 0.001
T-4	Selenium, total	mg/L	0.05	0.025	0.05		0.0012	< 0.001	< 0.001
T-5	Selenium, total	mg/L	0.05	0.025	0.05		< 0.001	< 0.001	0.0012
T-6	Selenium, total	mg/L	0.05	0.025	0.05		< 0.001	< 0.001	< 0.001

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Results Summary Table

Well	Parameter	Units	35 IAC 845.600(a)(1)	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-1	Sulfate, total	mg/L	400	55.5	400	790	805	836	849
AP-2	Sulfate, total	mg/L	400	55.5	400	393	411	417	440
AP-3	Sulfate, total	mg/L	400	55.5	400	512	493	554	558
AP-4	Sulfate, total	mg/L	400	55.5	400	11	< 10	< 10	< 10
AP-5	Sulfate, total	mg/L	400	55.5	400	50	43	63	59.2
AP-6	Sulfate, total	mg/L	400	55.5	400	14	< 10	11	< 10
AP-7	Sulfate, total	mg/L	400	55.5	400	17	11	14	< 10
AP-8	Sulfate, total	mg/L	400	55.5	400	< 10	< 10	11	< 10
AP-9	Sulfate, total	mg/L	400	55.5	400	23	22	25	17.7
AP-10	Sulfate, total	mg/L	400	55.5	400	96	100	108	89.4
AP-11	Sulfate, total	mg/L	400	55.5	400	89	134	77	63.4
AP-12	Sulfate, total	mg/L	400	55.5	400	460	499	612	457
AP-13	Sulfate, total	mg/L	400	55.5	400	118	140	135	121
AP-14	Sulfate, total	mg/L	400	55.5	400	679	740	821	909
RW-3	Sulfate, total	mg/L	400	55.5	400	14	< 10	14	< 10
T-1	Sulfate, total	mg/L	400	55.5	400		36	236	224
T-2	Sulfate, total	mg/L	400	55.5	400		135	181	142
T-4	Sulfate, total	mg/L	400	55.5	400		87	100	104
T-5	Sulfate, total	mg/L	400	55.5	400		27	40	40.4
T-6	Sulfate, total	mg/L	400	55.5	400		< 10	11	< 10
AP-1	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-2	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-3	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-4	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-5	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-6	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-7	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-8	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-9	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-10	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-11	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-12	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-13	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
AP-14	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
RW-3	Thallium, total	mg/L	0.002	0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002
T-1	Thallium, total	mg/L	0.002	0.002	0.002		< 0.002	< 0.002	< 0.002
T-2	Thallium, total	mg/L	0.002	0.002	0.002		< 0.002	< 0.002	< 0.002
T-4	Thallium, total	mg/L	0.002	0.002	0.002		< 0.002	< 0.002	< 0.002
T-5	Thallium, total	mg/L	0.002	0.002	0.002		< 0.002	< 0.002	< 0.002
T-6	Thallium, total	mg/L	0.002	0.002	0.002		< 0.002	< 0.002	< 0.002
AP-1	Total Dissolved Solids	mg/L	1200	609.21	1200	1400	1490	1530	1640
AP-2	Total Dissolved Solids	mg/L	1200	609.21	1200	1020	1040	1110	1160
AP-3	Total Dissolved Solids	mg/L	1200	609.21	1200	935	1040	1170	1160
AP-4	Total Dissolved Solids	mg/L	1200	609.21	1200	520	500	510	565
AP-5	Total Dissolved Solids	mg/L	1200	609.21	1200	434	405	422	470
AP-6	Total Dissolved Solids	mg/L	1200	609.21	1200	380	390	396	445
AP-7	Total Dissolved Solids	mg/L	1200	609.21	1200	330	340	386	470
AP-8	Total Dissolved Solids	mg/L	1200	609.21	1200	520	590	526	530
AP-9	Total Dissolved Solids	mg/L	1200	609.21	1200	530	535	558	740
AP-10	Total Dissolved Solids	mg/L	1200	609.21	1200	745	720	796	790
AP-11	Total Dissolved Solids	mg/L	1200	609.21	1200	665	1780	596	686
AP-12	Total Dissolved Solids	mg/L	1200	609.21	1200	1290	1620	1670	1300
AP-13	Total Dissolved Solids	mg/L	1200	609.21	1200	500	910	560	655
AP-14	Total Dissolved Solids	mg/L	1200	609.21	1200	1510	1480	1610	1840
RW-3	Total Dissolved Solids	mg/L	1200	609.21	1200	335	345	344	470
T-1	Total Dissolved Solids	mg/L	1200	609.21	1200		700	1020	1060
T-2	Total Dissolved Solids	mg/L	1200	609.21	1200		1060	1430	1580
T-4	Total Dissolved Solids	mg/L	1200	609.21	1200		255	382	695
T-5	Total Dissolved Solids	mg/L	1200	609.21	1200		280	338	382
T-6	Total Dissolved Solids	mg/L	1200	609.21	1200		475	494	595

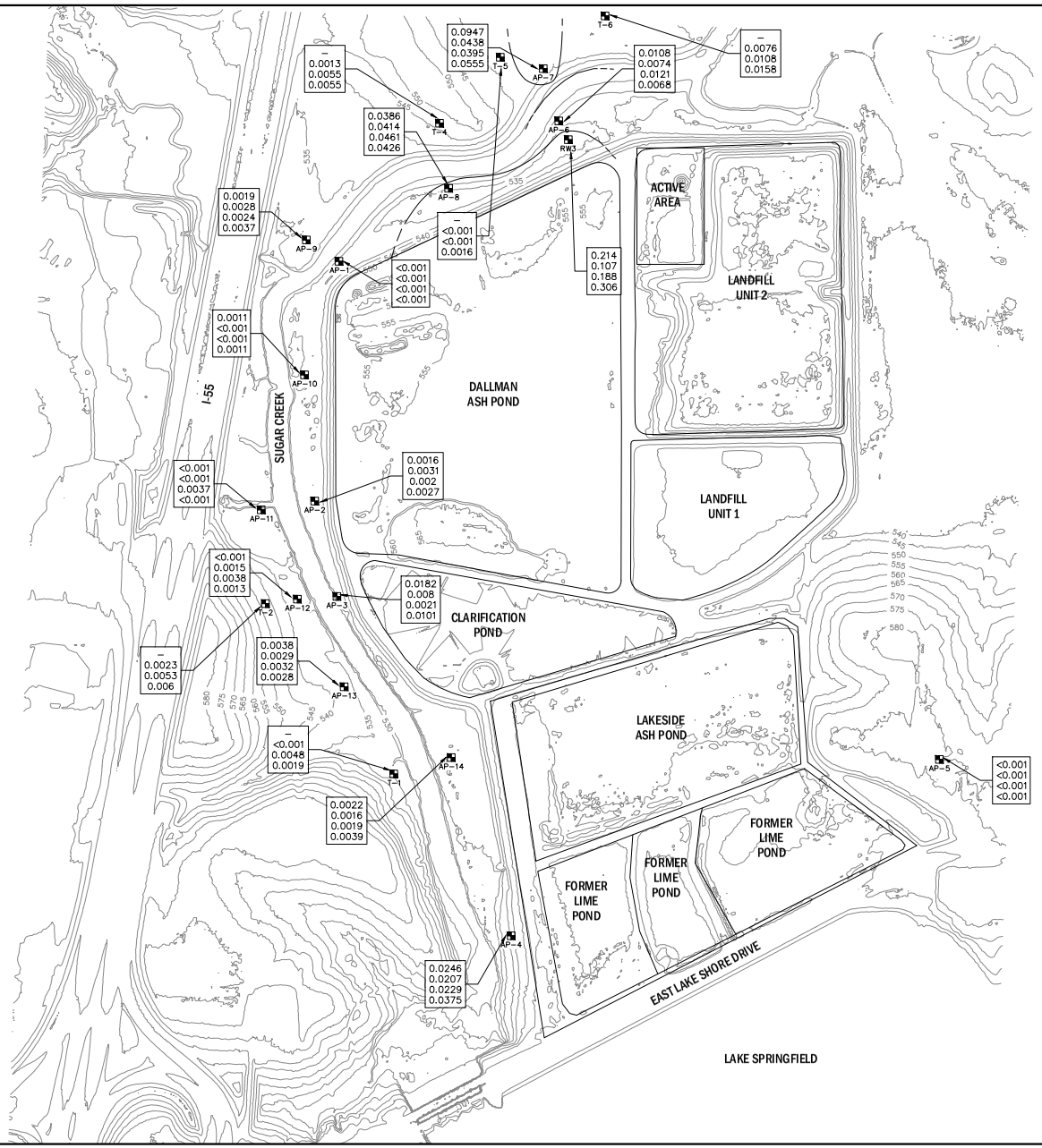
Notes:
1. The 35 Ill. Adm. Code 845.600 list requires Radium-226 and Radium-228 combined. The established MCL is for the combined parameters. However, these

TABLE 2:
2024 GROUNDWATER ANALYTICAL RESULTS EXCEEDANCE SUMMARY TABLE

City Water, Light and Power
Power Plant Ash Impoundment
2024 Groundwater Analytical Exceedance Data

Well	Parameter	Units	35 IAC 845.600(a)(1	Background	GWPS	2024-Q1	2024-Q2	2024-Q3	2024-Q4
AP-7	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0555	0.0395	0.0438	0.0947
AP-8	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.0426	0.0461	0.0414	0.0386
RW-3	Arsenic, total	mg/L	0.01	0.0375	0.0375	0.306	0.188	0.107	0.214
AP-1	Boron, total	mg/L	2	0.14973	2	23.5	22.7	22.9	23.6
AP-2	Boron, total	mg/L	2	0.14973	2	3.38	3.43	3.1	3.52
AP-3	Boron, total	mg/L	2	0.14973	2	14.8	14.5	14.6	14.9
AP-10	Boron, total	mg/L	2	0.14973	2	3.71	3.92	3.9	3.95
AP-14	Boron, total	mg/L	2	0.14973	2	21.6	22.3	20	21
AP-1	Calcium, total	mg/L	Background	181.6	181.6	250	248	244	237
AP-2	Calcium, total	mg/L	Background	181.6	181.6	210	194	206	222
AP-12	Calcium, total	mg/L	Background	181.6	181.6	228	240	258	203
AP-14	Calcium, total	mg/L	Background	181.6	181.6	263	245	237	253
T-2	Calcium, total	mg/L	Background	181.6	181.6		150	218	211
T-1	Chloride, total	mg/L	200	12.3	200		49	259	233
T-2	Chloride, total	mg/L	200	12.3	200		173	447	509
AP-2	Cobalt, total	mg/L	0.006	0.0052	0.006	0.0068	0.0102	0.0073	0.0085
AP-3	Cobalt, total	mg/L	0.006	0.0052	0.006	< 0.005	0.0065	0.0071	< 0.005
AP-2	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.41	6.21	6.58	6.41
AP-3	pH	s.u.	6.5 - 9.0	6.7 - 7.87	6.5 - 9.0	6.55	6.36	6.2	6.48
AP-1	Sulfate, total	mg/L	400	55.5	400	790	805	836	849
AP-2	Sulfate, total	mg/L	400	55.5	400	393	411	417	440
AP-3	Sulfate, total	mg/L	400	55.5	400	512	493	554	558
AP-12	Sulfate, total	mg/L	400	55.5	400	460	499	612	457
AP-14	Sulfate, total	mg/L	400	55.5	400	679	740	821	909
AP-1	Total Dissolved Solids	mg/L	1200	609.21	1200	1400	1490	1530	1640
AP-12	Total Dissolved Solids	mg/L	1200	609.21	1200	1290	1620	1670	1300
AP-14	Total Dissolved Solids	mg/L	1200	609.21	1200	1510	1480	1610	1840
T-2	Total Dissolved Solids	mg/L	1200	609.21	1200		1060	1430	1580

APPENDIX A:
2024 GWPS EXCEEDANCE MAPS



LEGEND

- MONITORING WELL
- DATA CALLOUTS
  - Q1 – 02/21/2024
  - Q2 – 05/13/2024
  - Q3 – 08/12/2024
  - Q4 – 11/11/2024
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. ARSENIC, TOTAL: GWPS = 0.0375 mg/L

N

0 200 400 800

SCALE: IN FEET

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APPROVED BY: BJH | DESIGNED BY: JSV | DRAWN BY: BCK

ARSENIC GW EXCEEDANCE MAP 2024

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SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

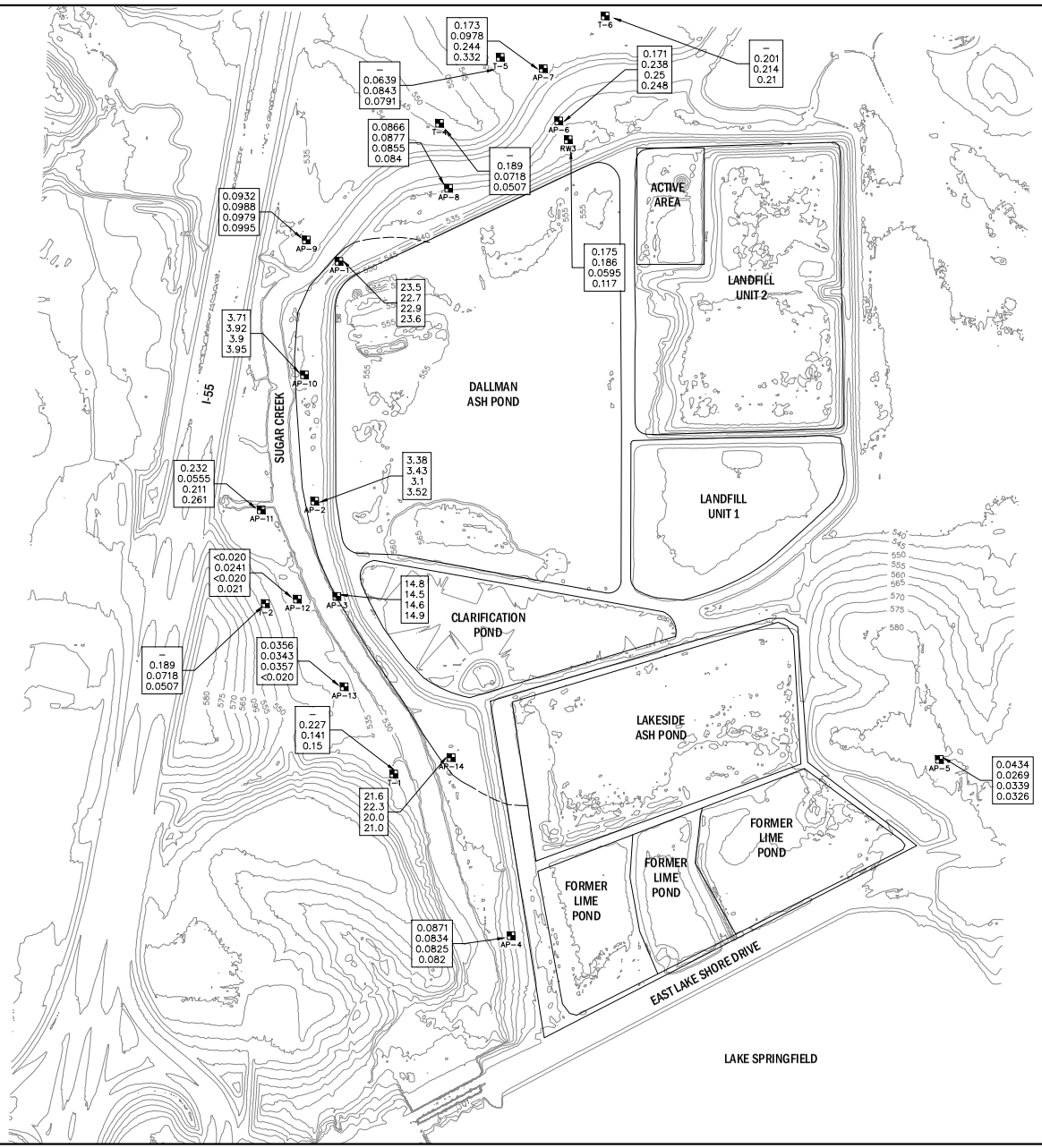
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LEGEND

- MONITORING WELL
- Q1 – 02/21/2024
  Q2 – 05/13/2024
  Q3 – 08/12/2024
  Q4 – 11/11/2024
  DATA CALLOUTS
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. BORON, TOTAL: GWPS = 2 mg/L

N

0 200 400 800

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BORON GW EXCEEDANCE MAP 2024

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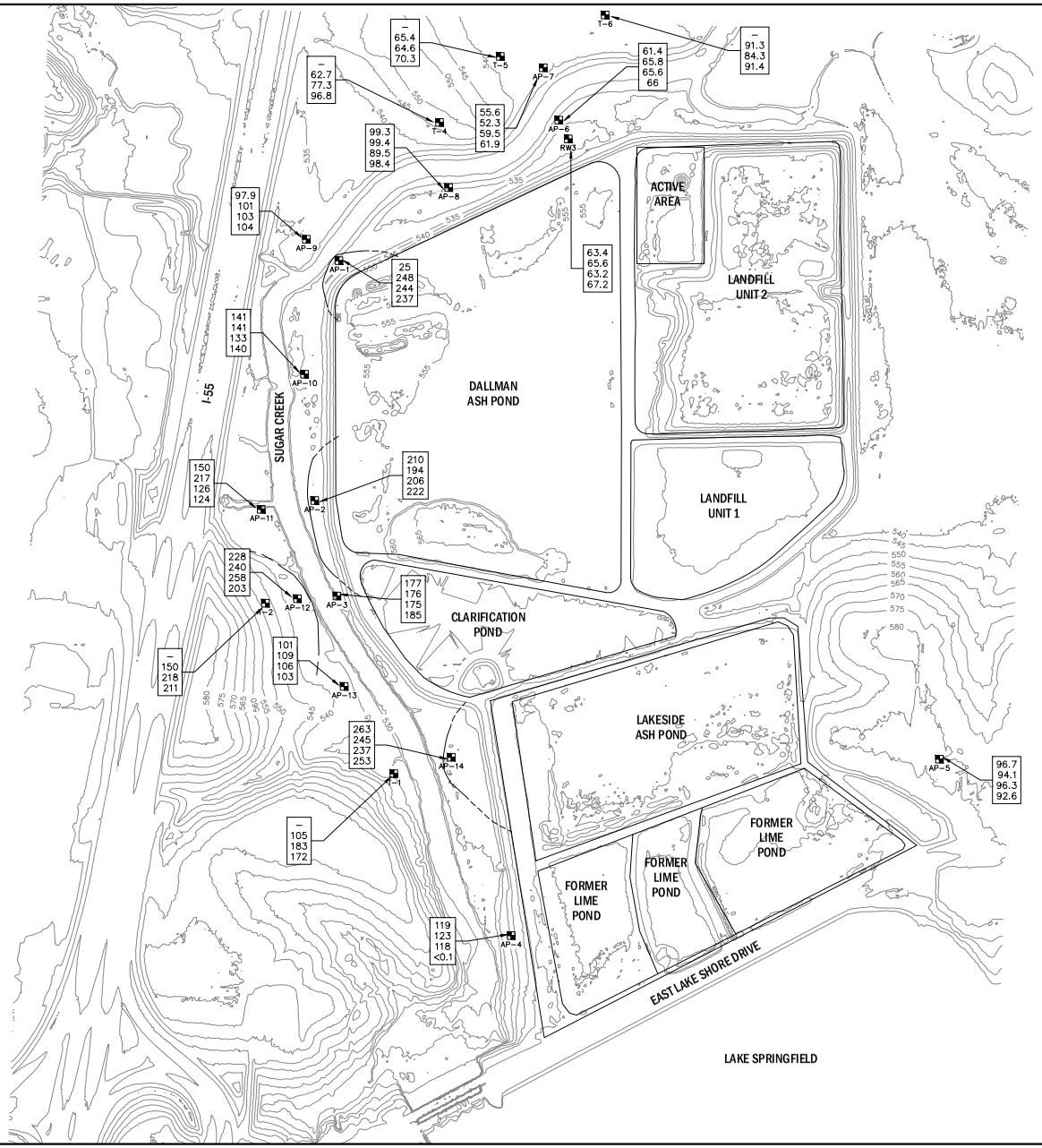
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LEGEND

- MONITORING WELL
- Q1 – 02/21/2024
  Q2 – 05/13/2024
  Q3 – 08/12/2024
  Q4 – 11/11/2024
  DATA CALLOUTS
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. CALCIUM, TOTAL: GWPS = 181.6 mg/L.

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CALCIUM GW EXCEEDANCE MAP 2024

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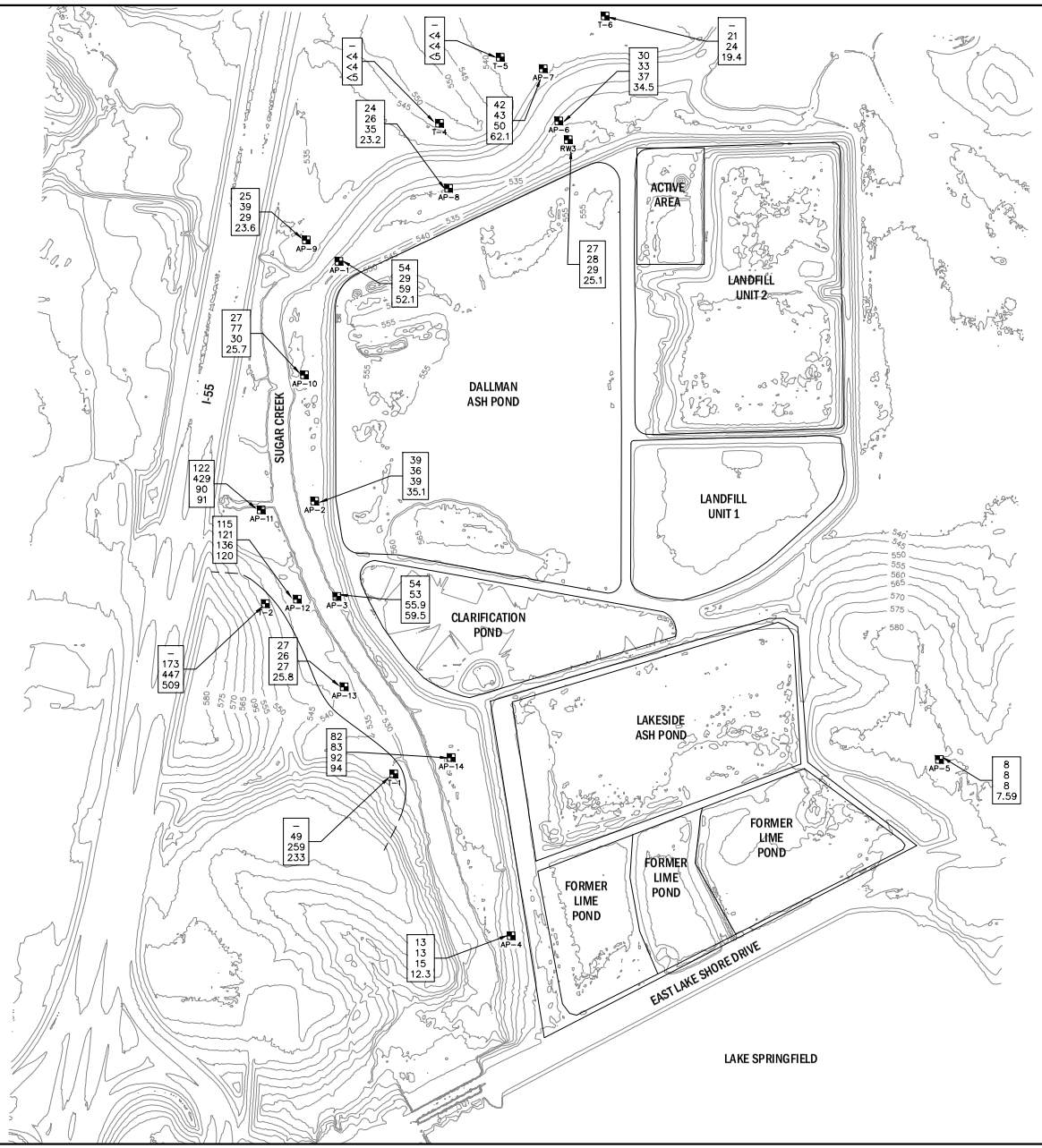
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LEGEND

- MONITORING WELL
- DATA CALLOUTS
  - Q1 – 02/21/2024
  - Q2 – 05/13/2024
  - Q3 – 08/12/2024
  - Q4 – 11/11/2024
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. CHLORIDE, TOTAL: GWPS = 200 mg/L

N

0 200 400 800

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CHLORIDE GW EXCEEDANCE MAP 2024

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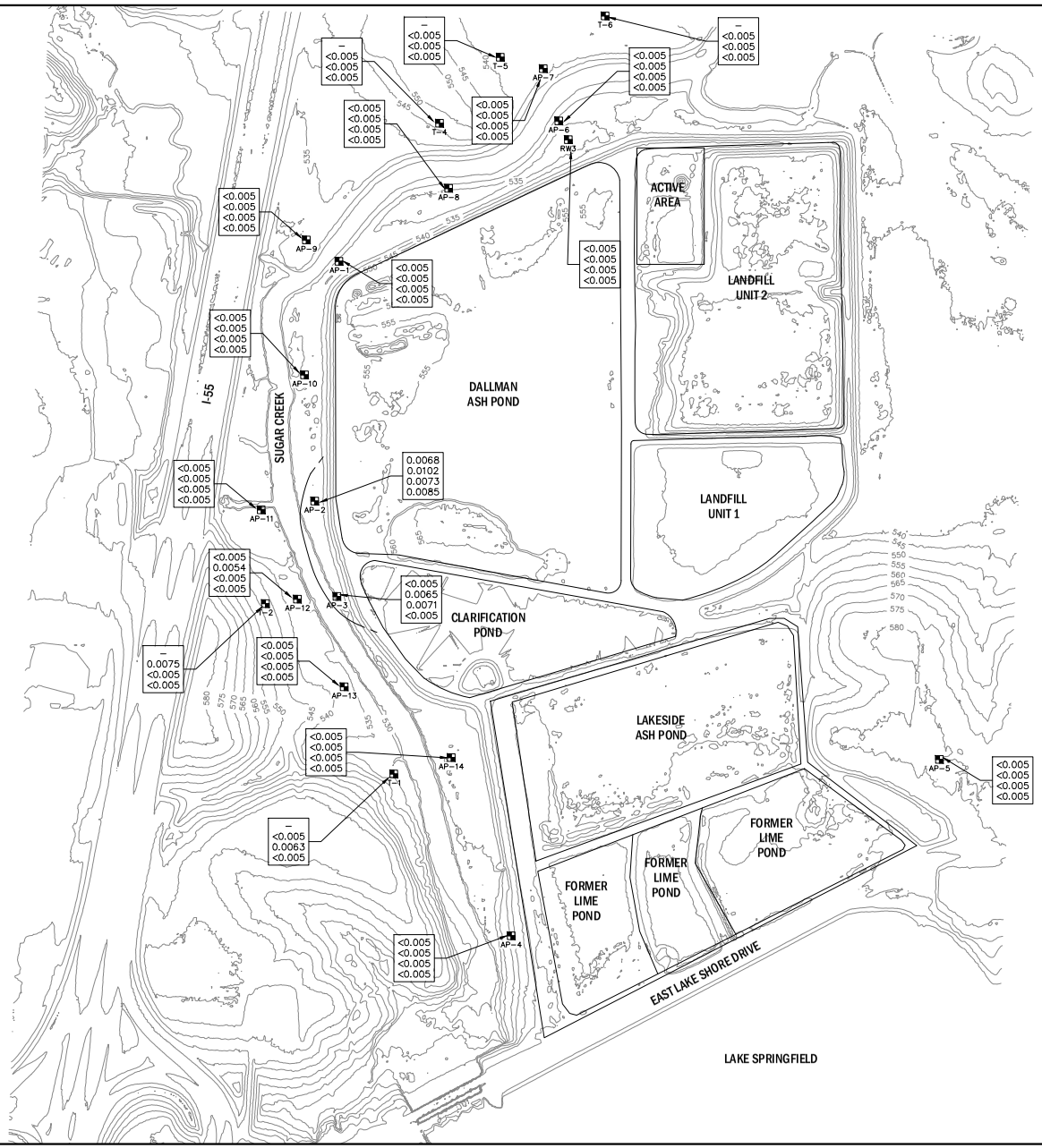
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LEGEND

- MONITORING WELL
- DATA CALLOUTS
  - Q1 – 02/21/2024
  - Q2 – 05/13/2024
  - Q3 – 08/12/2024
  - Q4 – 11/11/2024
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. COBALT, TOTAL: GWPS = 0.006 mg/L

N

0 200 400 800

SCALE: IN FEET

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COBALT GW EXCEEDANCE MAP 2024

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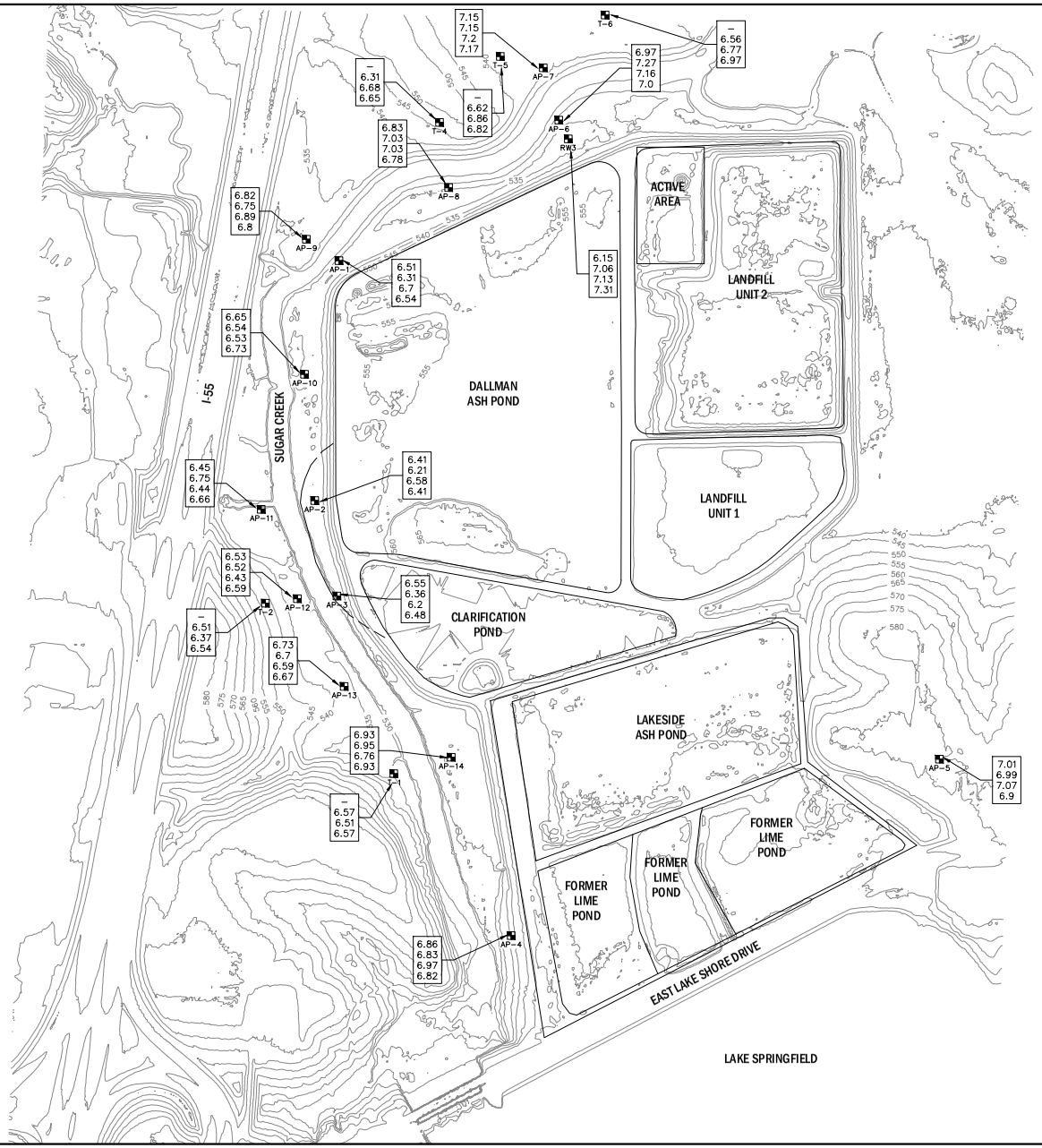
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LEGEND

- MONITORING WELL
- Q1 – 02/23/2024
  Q2 – 05/14/2024
  Q3 – 08/13/2024
  Q4 – 11/12/2024
  DATA CALLOUTS
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. pH, TOTAL: GWPS = 6.5–9 UNITS

N

0 200 400 800

SCALE: IN FEET

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pH GW EXCEEDANCE MAP 2024

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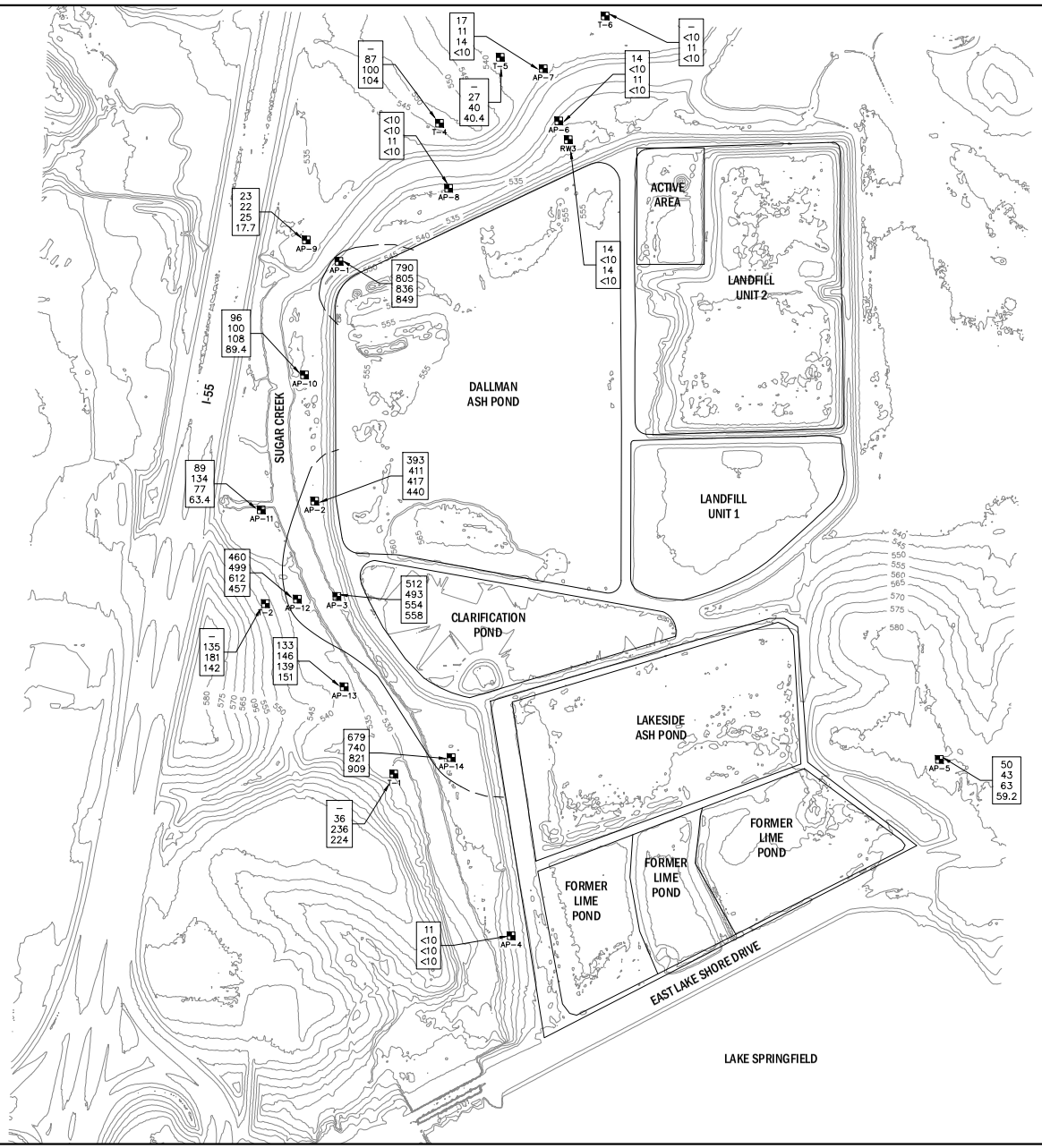
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LEGEND

- MONITORING WELL
- DATA CALLOUTS
  - Q1 – 02/21/2024
  - Q2 – 05/13/2024
  - Q3 – 08/12/2024
  - Q4 – 11/11/2024
- GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. SULFATE, TOTAL: GWPS = 400 mg/L

N

0 200 400 800

SCALE: IN FEET

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SULFATE GW EXCEEDANCE MAP 2024

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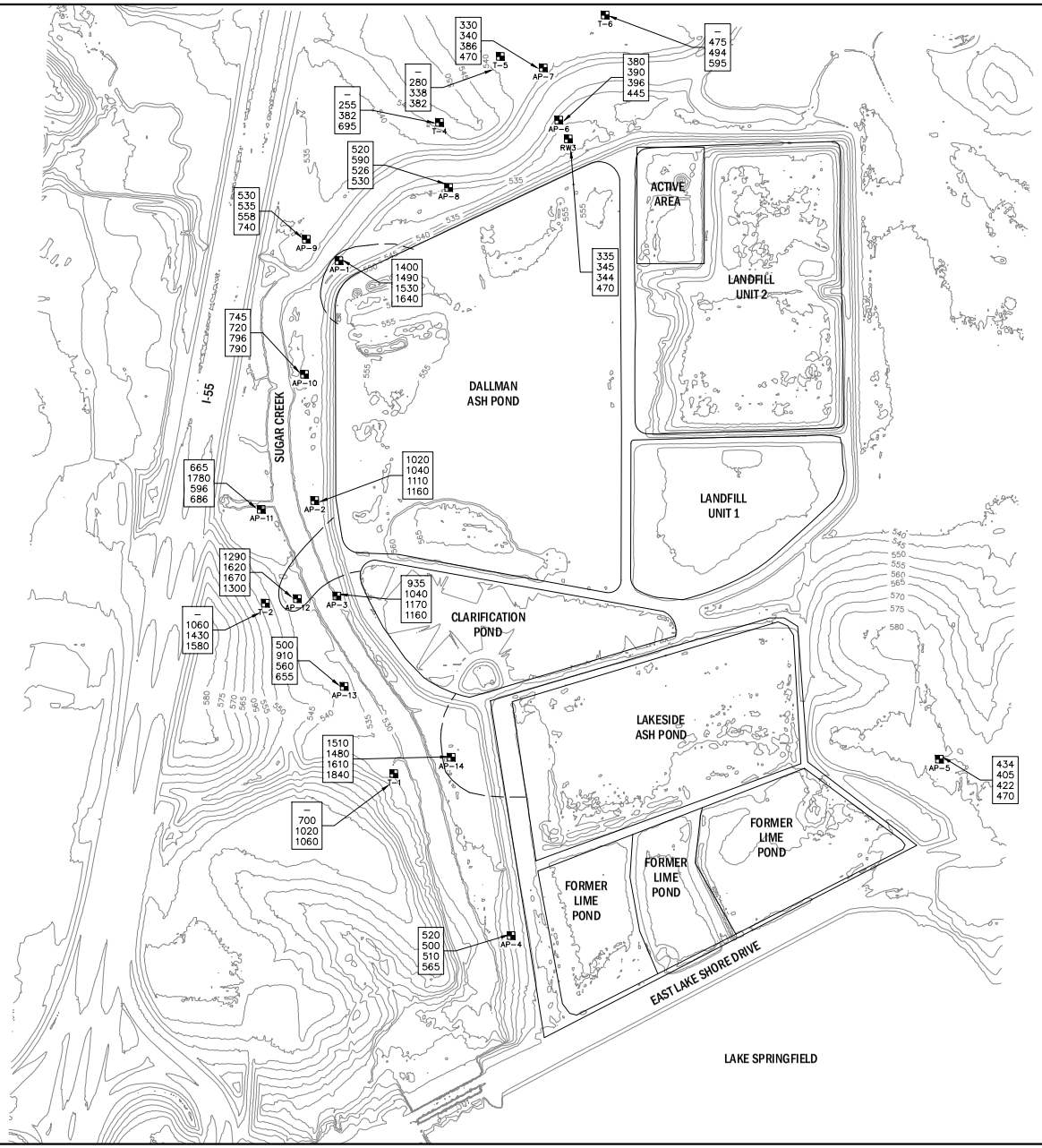
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LEGEND

MONITORING WELL

Q1 – 02/21/2024
Q2 – 05/13/2024
Q3 – 08/12/2024
Q4 – 11/11/2024

DATA CALLOUTS

GWPS ISOCONTOUR

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).
2. TDS, TOTAL: GWPS = 1200 mg/L

N

0 200 400 800

SCALE: IN FEET

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APPROVED BY: BJH | DESIGNED BY: JSV | DRAWN BY: BCK

TOTAL DISSOLVED SOLIDS GW EXCEEDANCE MAP 2024

PREPARED FOR
CITY WATER, LIGHT, ANS POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2025

PROJECT ID: 240338/0014

SHEET NUMBER: 8

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APPENDIX B:
2024 POTENTIOMETRIC SURFACE MAPS

Tab: 1-24-2024 Last Saved: October 18, 2024, by Ben Karpus Plotted: Friday, October 18, 2024 9:04:44 AM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\PMAPS\2024\2024 Monthly PMAPS.dwg

LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◉ PART 257 GROUNDWATER MONITORING WELL
- ■ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

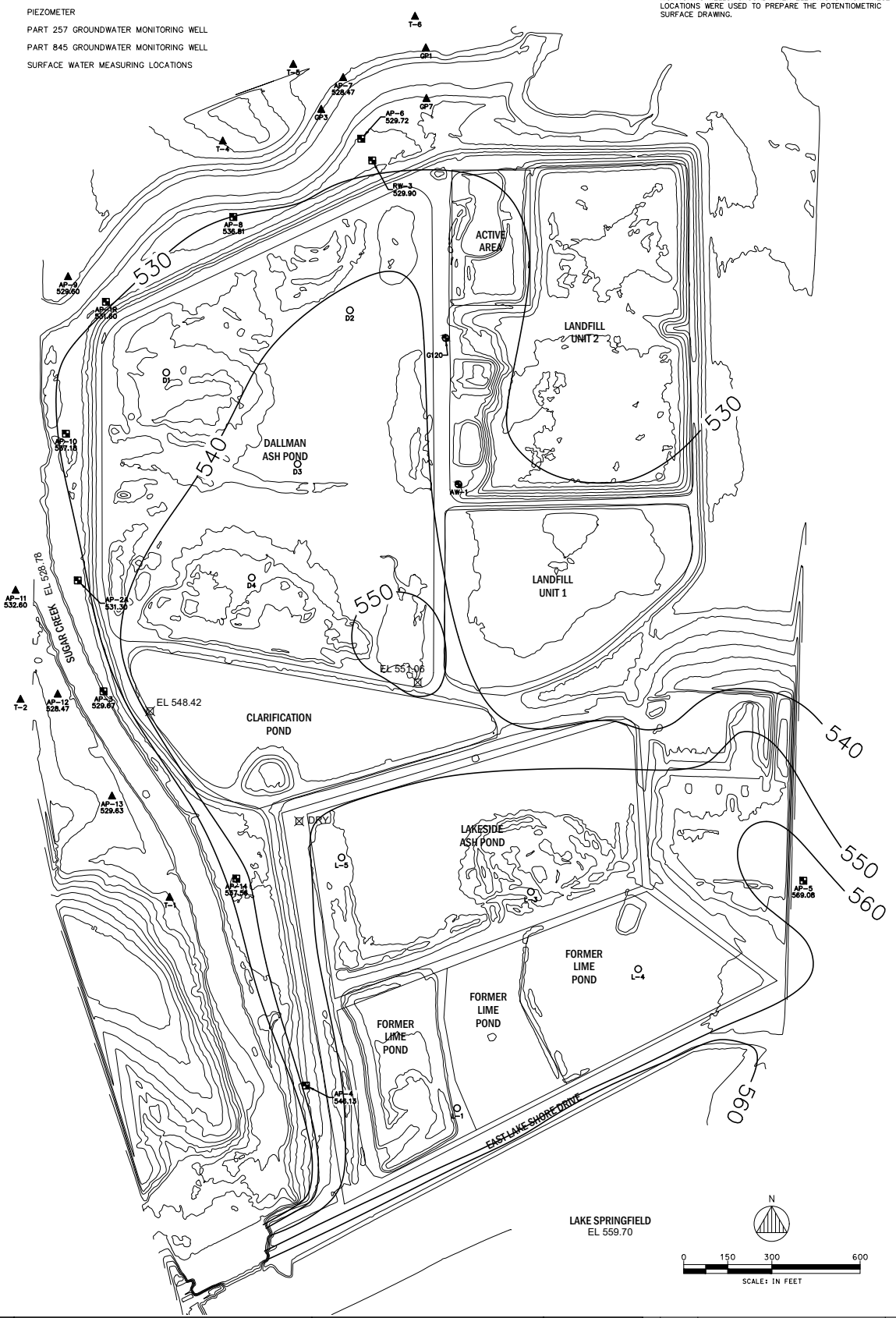


FIG. 1

POTENTIOMETRIC SURFACE MAP
JANUARY 24, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- EXISTING GROUND CONTOURS
- GROUNDWATER CONTOURS
- TEMPORARY ASSESSMENT WELL
- PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

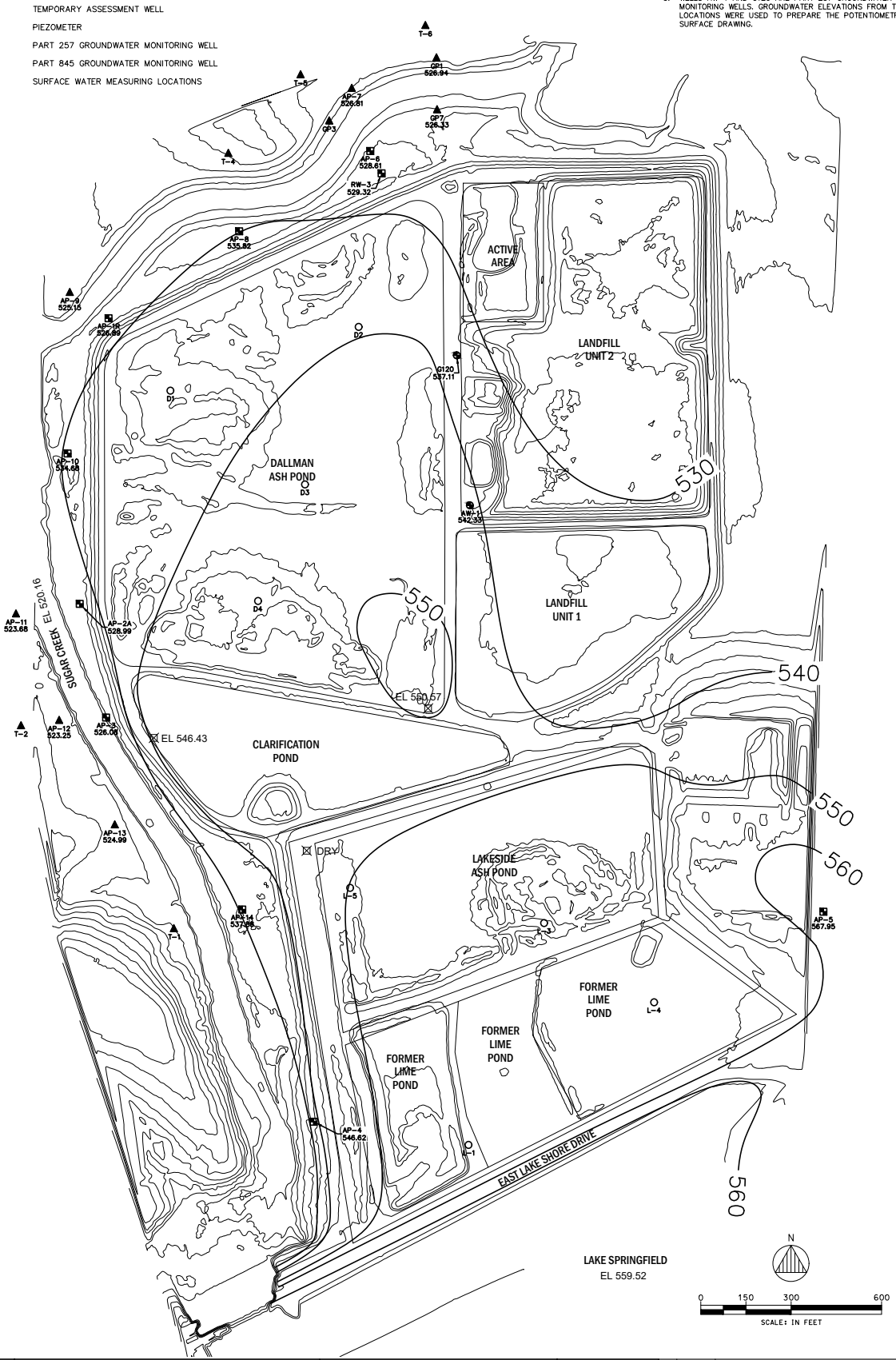


FIG. 2

POTENTIOMETRIC SURFACE MAP
FEBRUARY 22, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT ID: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 EXISTING GROUND CONTOURS
- 540 GROUNDWATER CONTOURS
- TEMPORARY ASSESSMENT WELL
- PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

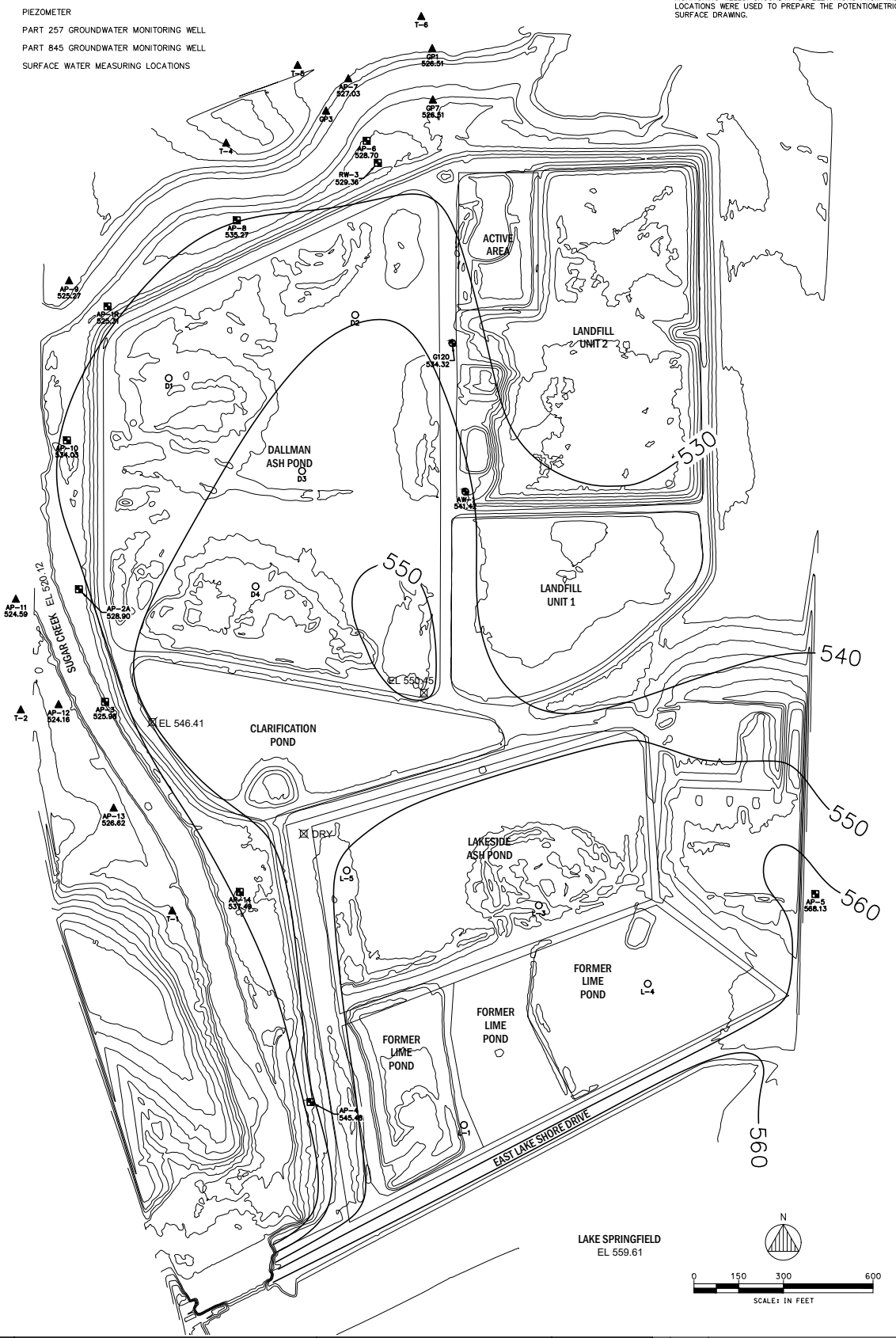


FIG. 3

POTENTIOMETRIC SURFACE MAP
MARCH 25, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 EXISTING GROUND CONTOURS
- 540 GROUNDWATER CONTOURS
- TEMPORARY ASSESSMENT WELL
- PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

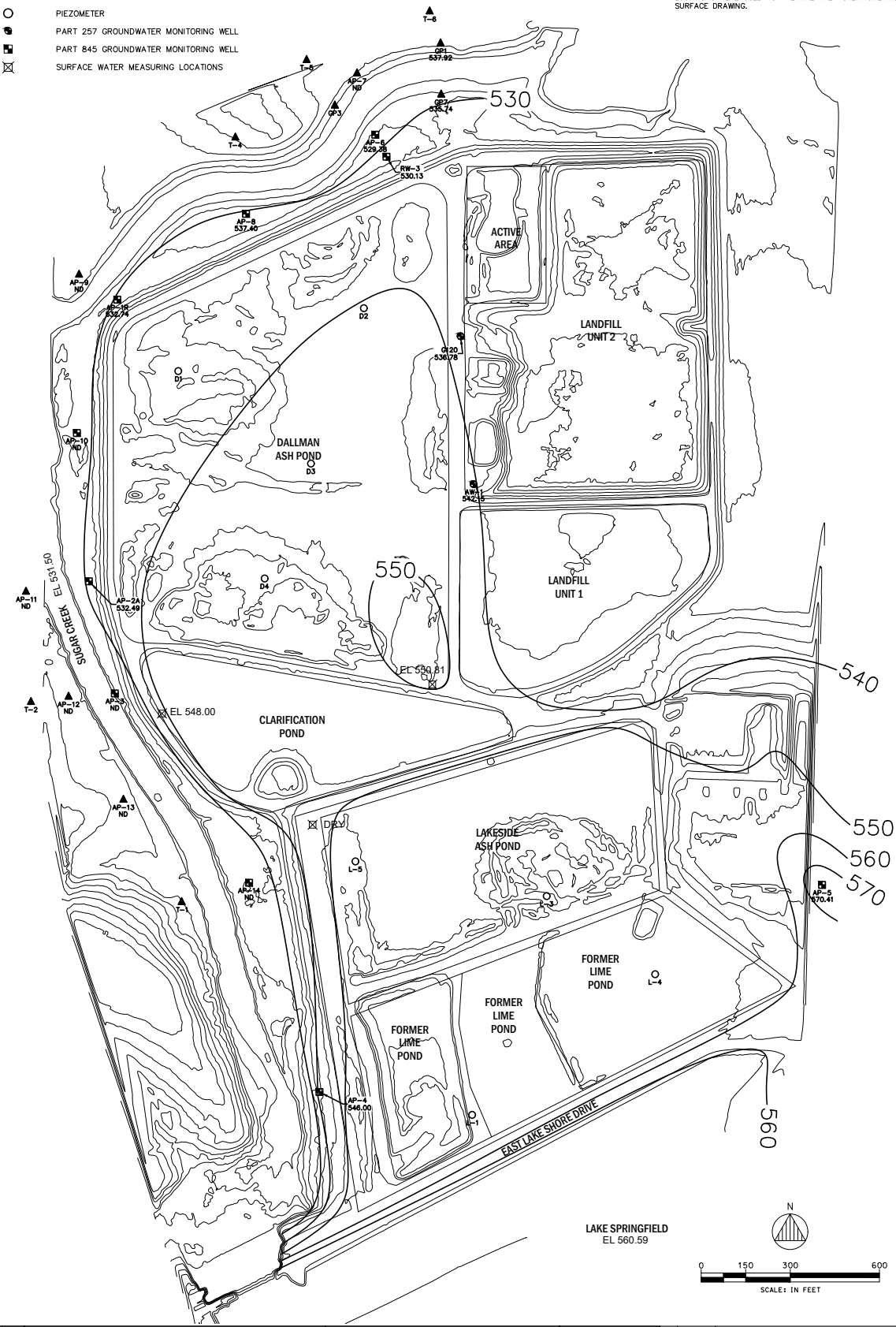


FIG. 4

POTENTIOMETRIC SURFACE MAP
APRIL 29, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT ID: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◘ PART 257 GROUNDWATER MONITORING WELL
- ◘ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

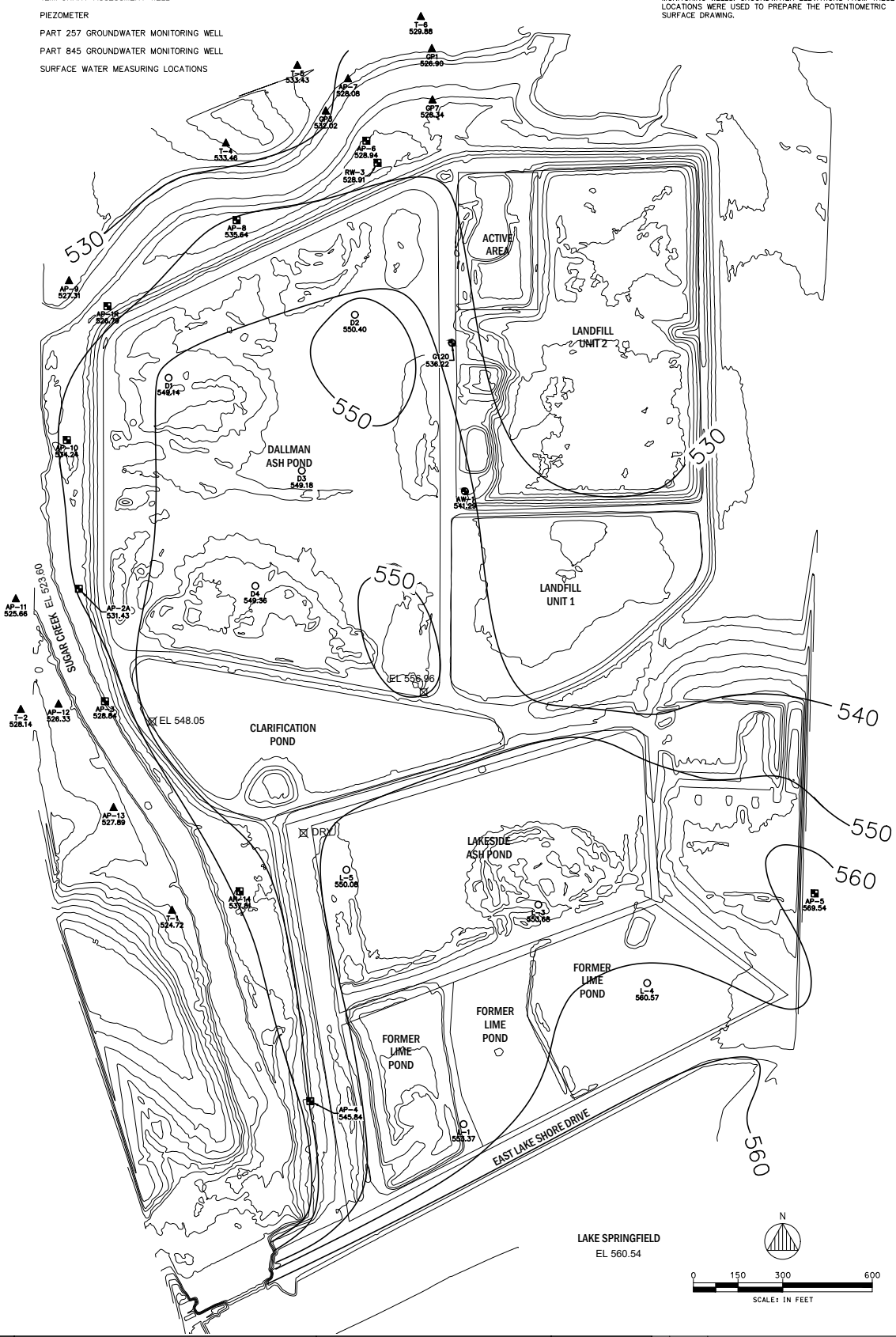


FIG. 5

POTENTIOMETRIC SURFACE MAP
MAY 13, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◘ PART 257 GROUNDWATER MONITORING WELL
- ■ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

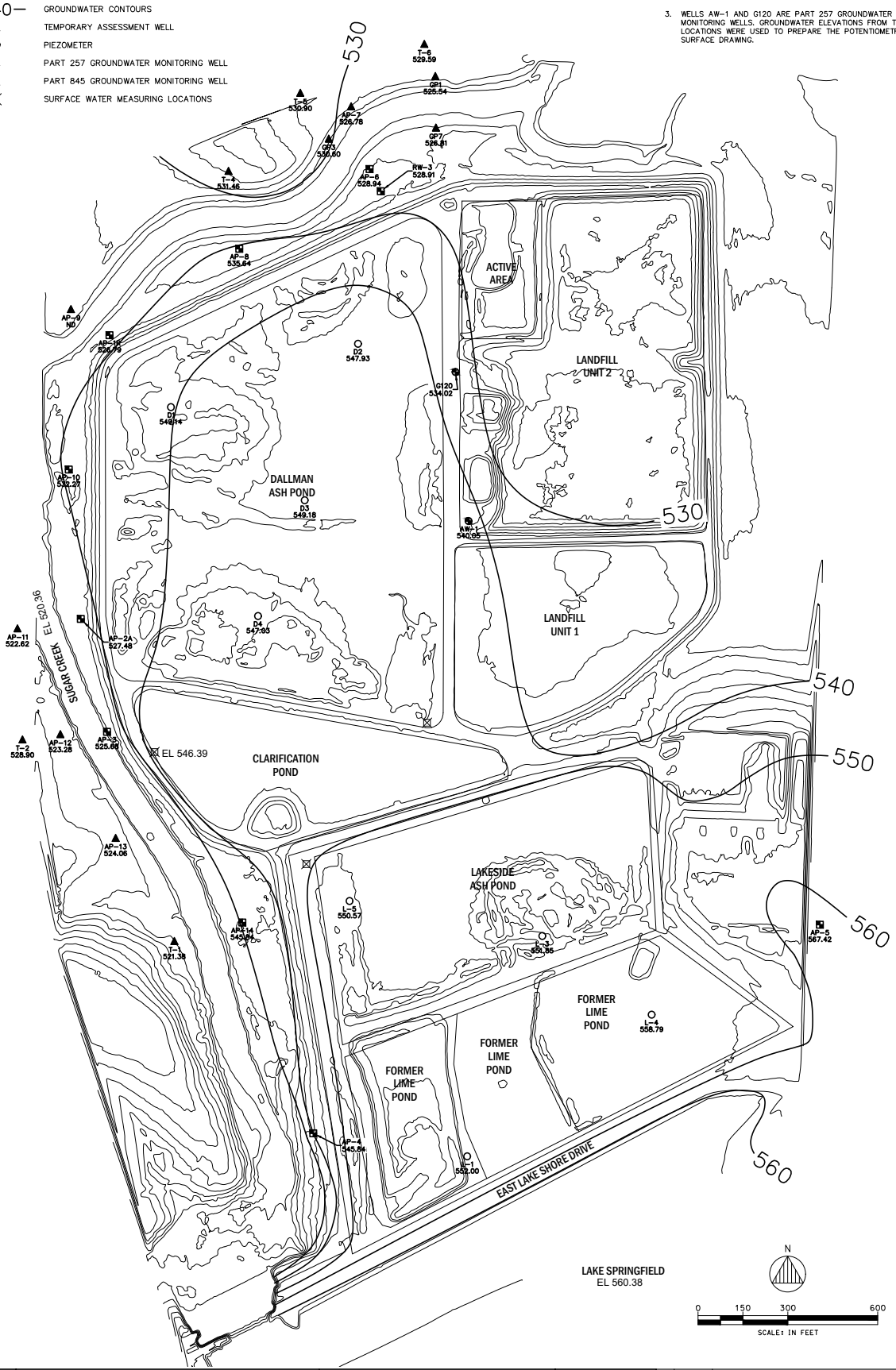


FIG. 6

POTENTIOMETRIC SURFACE MAP
JUNE 26, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◘ PART 257 GROUNDWATER MONITORING WELL
- ■ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
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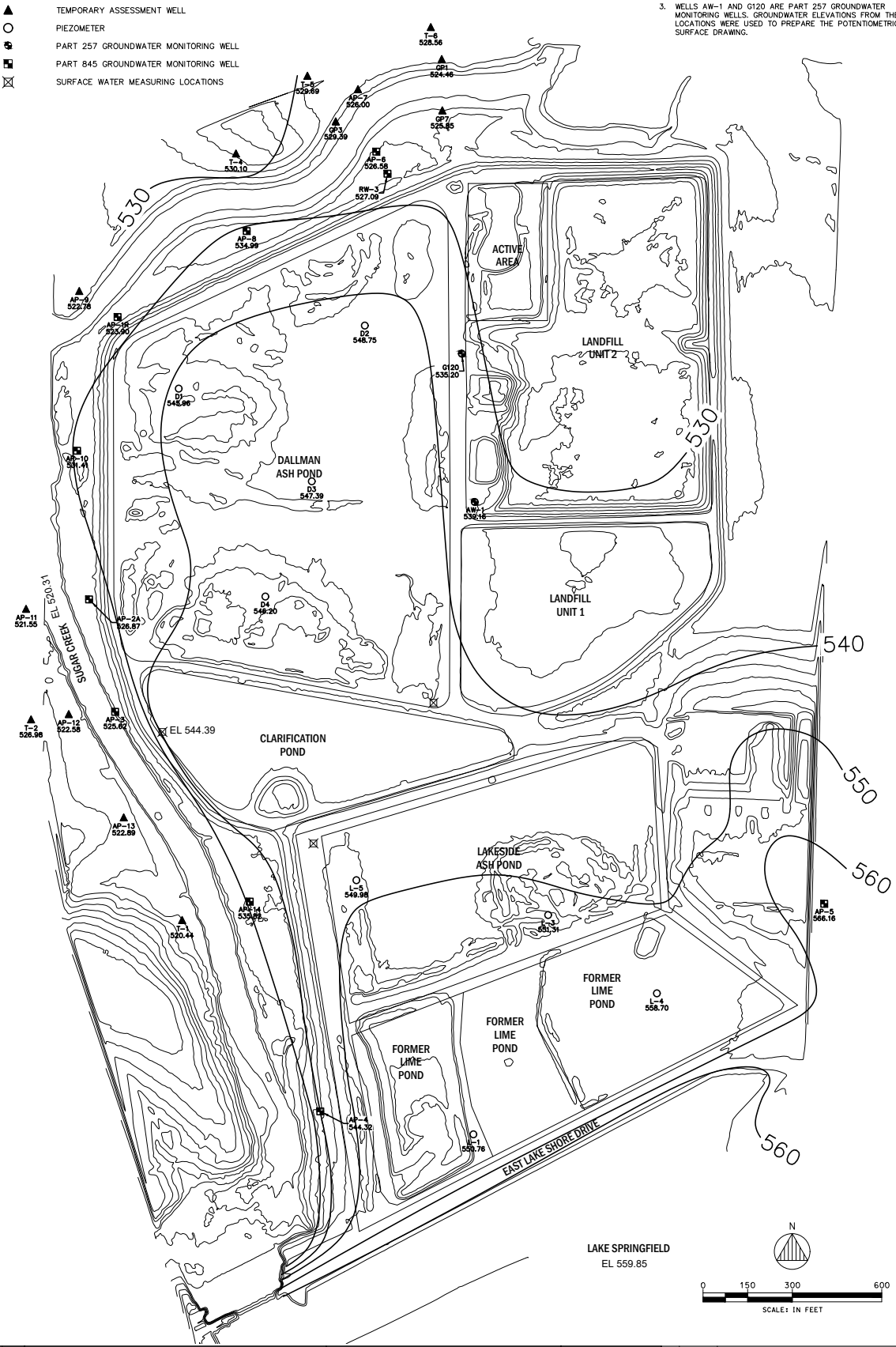


FIG. 7

POTENTIOMETRIC SURFACE MAP
JULY 30, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

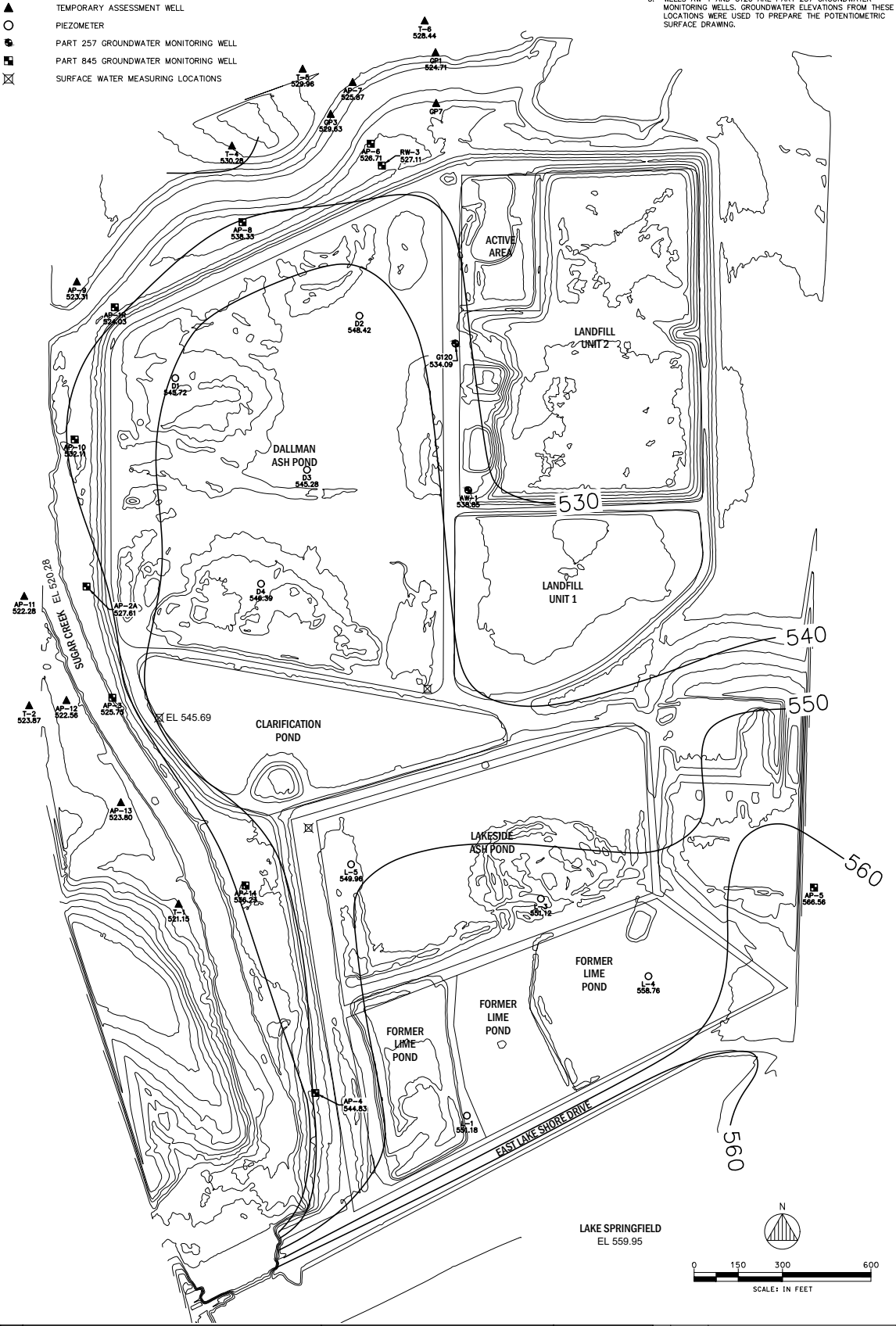


FIG. 8

POTENTIOMETRIC SURFACE MAP
AUGUST 12, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: OCTOBER 2024
PROJECT ID: 240227.0010
SHEET NUMBER:

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◘ PART 257 GROUNDWATER MONITORING WELL
- ■ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 10 FEET.
3. WELLS AW-1 AND G120 ARE PART 257 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

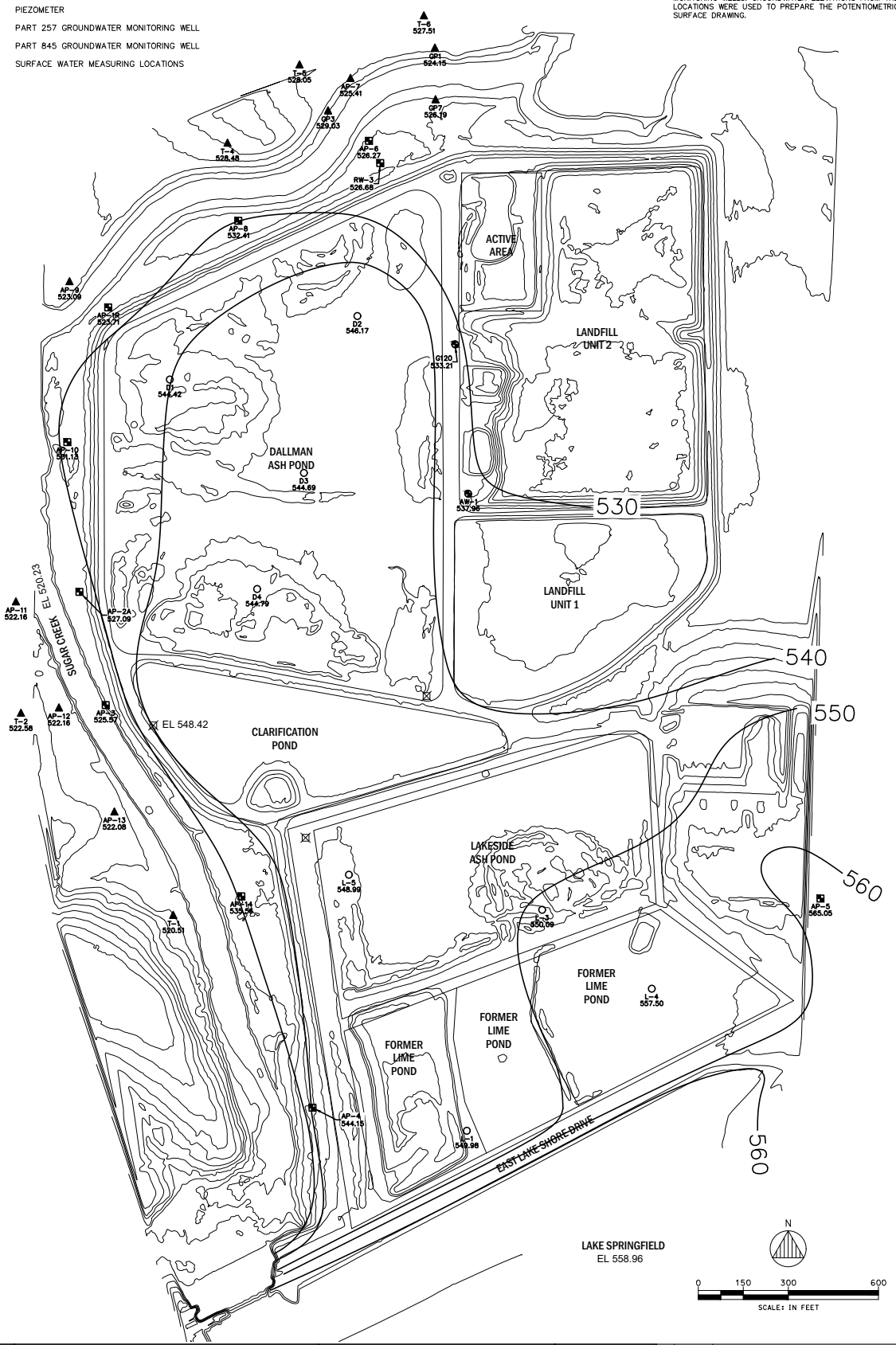


FIG. 9

POTENTIOMETRIC SURFACE MAP
SEPTEMBER 30, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT ID: 240227.0010

DATE: OCTOBER 2024

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- −540− GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
2. CONTOUR INTERVAL SHOWN IS 5 FEET.
3. WELLS AP-8 AND AP-10 ARE PART 845 GROUNDWATER MONITORING WELLS. GROUNDWATER ELEVATIONS FROM THESE LOCATIONS WERE USED TO PREPARE THE POTENTIOMETRIC SURFACE DRAWING.

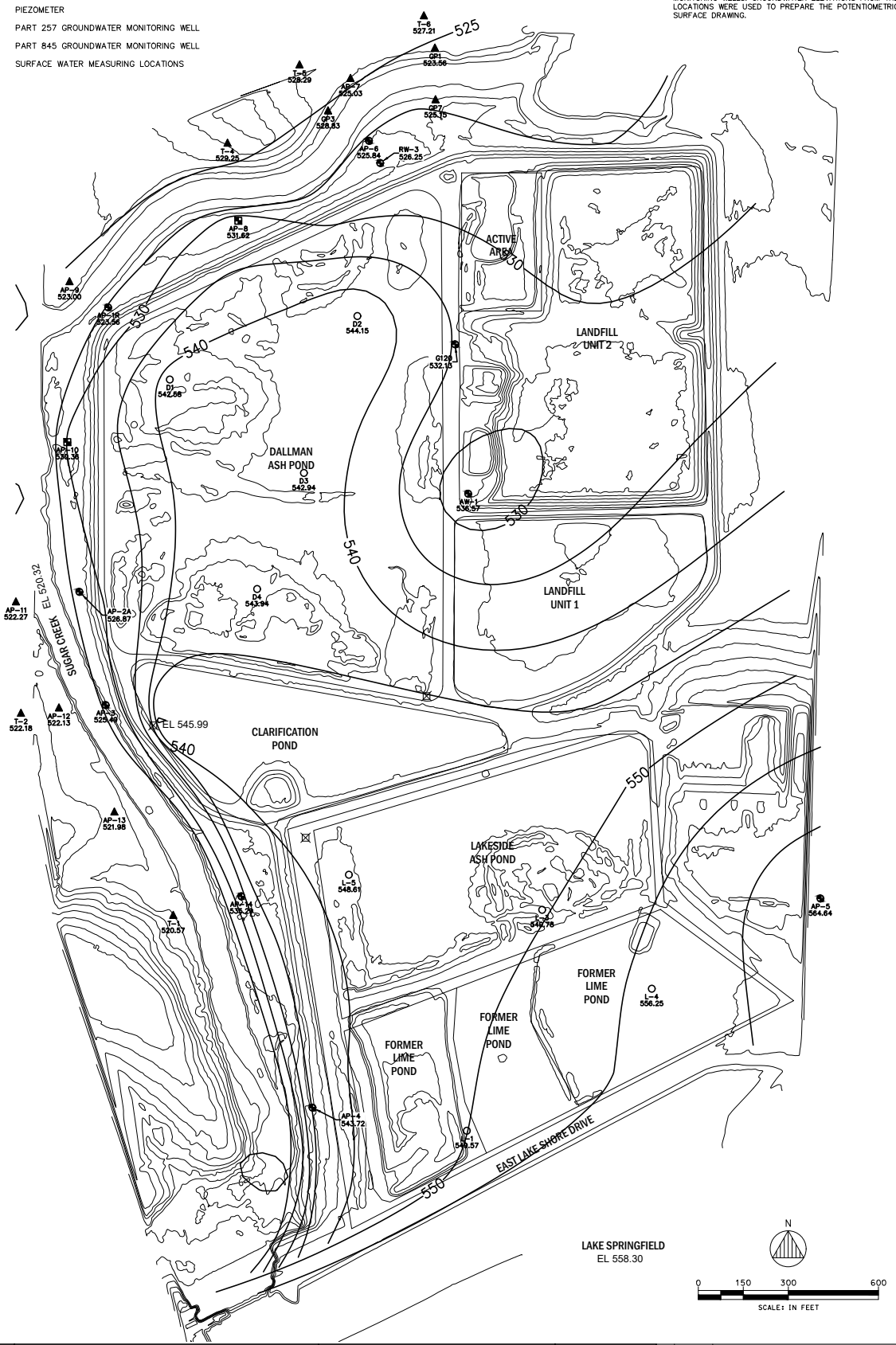


FIG. 10

POTENTIOMETRIC SURFACE MAP
OCTOBER 24, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:

PROJECT ID: 240227.0010

DATE: JANUARY 2025

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LEGEND

- 550 — EXISTING GROUND CONTOURS
- —540— GROUNDWATER CONTOURS
- ▲ TEMPORARY ASSESSMENT WELL
- ○ PIEZOMETER
- ◘ PART 257 GROUNDWATER MONITORING WELL
- ■ PART 845 GROUNDWATER MONITORING WELL
- ⊠ SURFACE WATER MEASURING LOCATIONS

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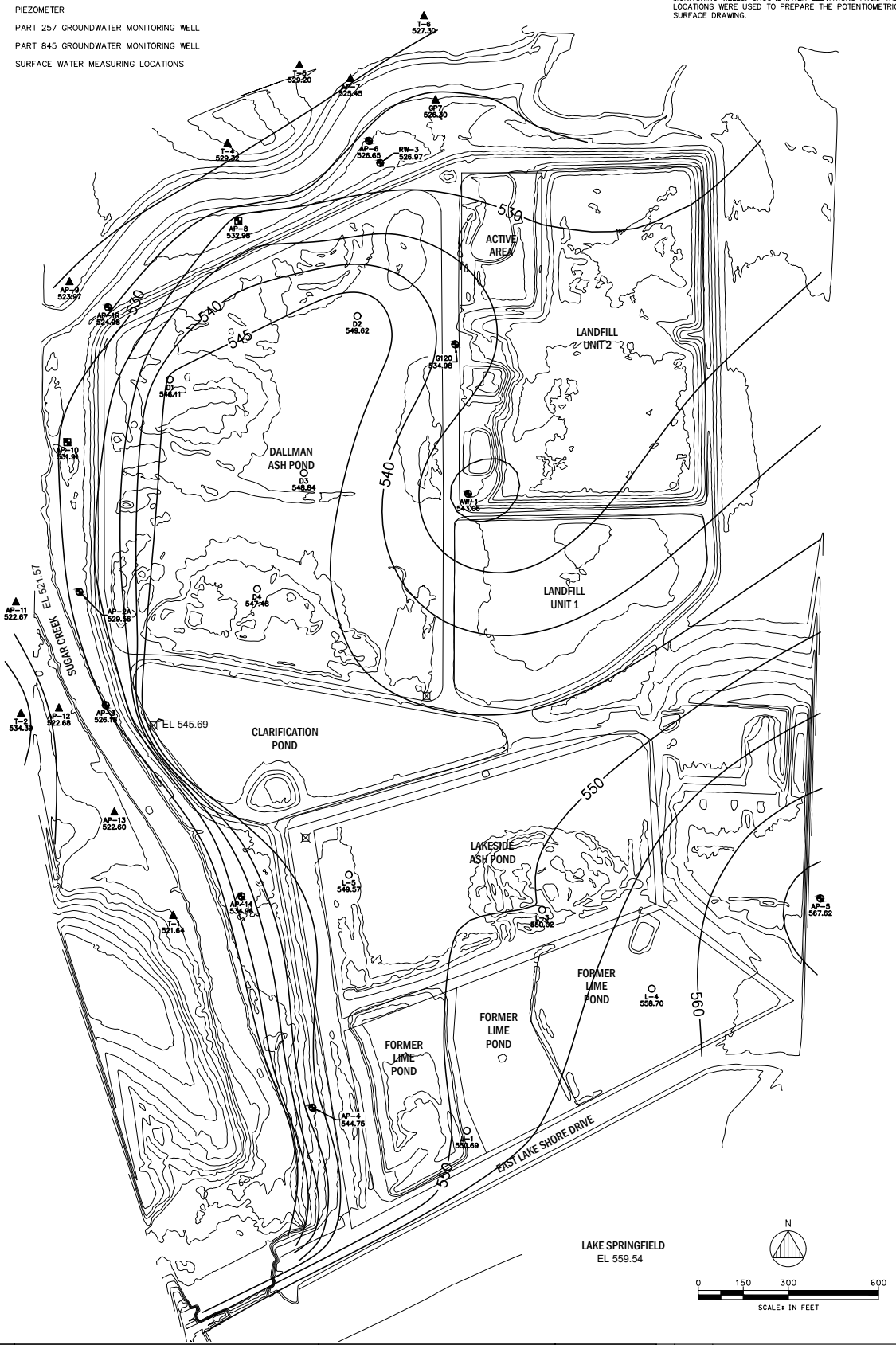


FIG. 11

SHEET NUMBER:

PROJECT #: 240227.0010

DATE: JANUARY 2025

POTENTIOMETRIC SURFACE MAP
NOVEMBER 12, 2024

PREPARED FOR

CITY WATER, LIGHT, AND POWER

SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

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LEGEND

- 550 EXISTING GROUND CONTOURS
- 540 GROUNDWATER CONTOURS
- TEMPORARY ASSESSMENT WELL
- PIEZOMETER
- PART 257 GROUNDWATER MONITORING WELL
- PART 845 GROUNDWATER MONITORING WELL
- SURFACE WATER MEASURING LOCATIONS

NOTES

1. FLIGHT DATE APRIL 2023.
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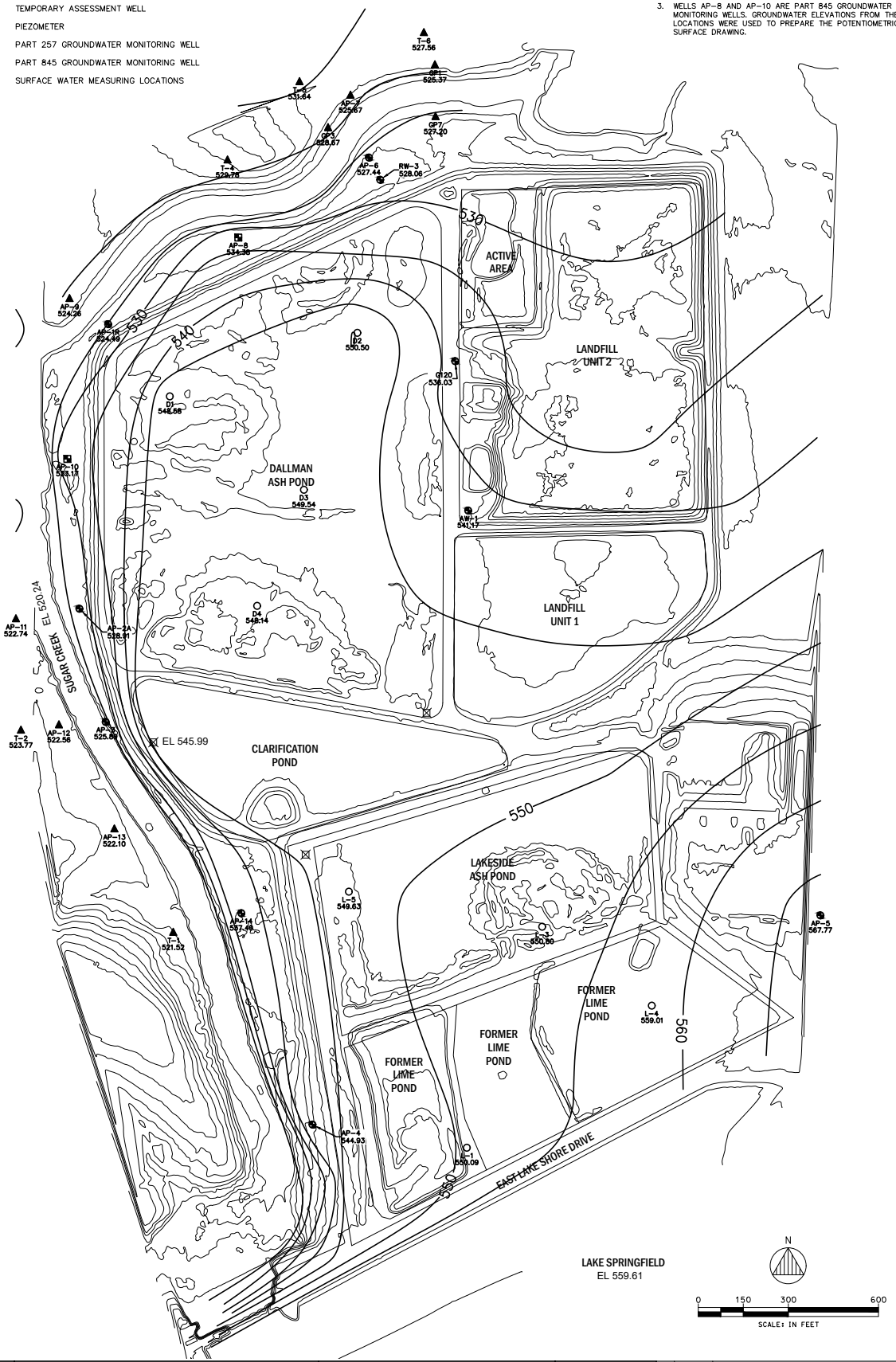


FIG. 12

POTENTIOMETRIC SURFACE MAP
DECEMBER 18, 2024

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

SHEET NUMBER:
PROJECT #: 240227.0010
DATE: JANUARY 2025

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APPROVED BY: JSV | DESIGNED BY: JSV | DRAWN BY: BCK

NO.	DATE	REVISION DESCRIPTION	BY

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APPENDIX C:
2024 LABORATORY ANALYTICAL REPORTS AND FIELD SAMPLING NOTES

APPENDIX C-1:

First Quarter 2024

Laboratory Analytical Report and Field Notes

March 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24010117

Dear Eric Staley:

TEKLAB, INC received 15 samples on 2/26/2024 6:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	27
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24010117

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Mar-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

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Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24010117
Report Date: 18-Mar-24

Cooler Receipt Temp: 3.3 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24010117
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Report Date: 18-Mar-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 02/21/2024 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	02/21/2024 11:38	R343702
Depth to water	*	-5.00		**6.40**	ft	1	02/21/2024 11:38	R343702
Depth to water from measuring point	*	0		**9.10**	ft	1	02/21/2024 11:38	R343702
Elevation of groundwater surface	*	0		**530.40**	ft	1	02/21/2024 11:38	R343702
Measuring Point Elevation	*	0		**539.50**	ft	1	02/21/2024 11:38	R343702
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	02/21/2024 11:38	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**120**	NTU	1	02/21/2024 11:38	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/21/2024 11:38	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.10**		1	02/21/2024 11:38	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**648**	µmhos/cm @25C	1	02/21/2024 11:38	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**335**	mg/L	2.5	02/23/2024 9:53	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	02/22/2024 22:24	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	02/23/2024 13:07	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/22/2024 22:24	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.166**	mg/L	1	02/26/2024 18:50	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 18:50	219117
Boron	NELAP	0.0200		**0.116**	mg/L	1	02/26/2024 18:50	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 18:50	219117
Calcium	NELAP	0.100		**63.4**	mg/L	1	02/26/2024 18:50	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 18:50	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:50	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 18:50	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:18	219117
Arsenic	NELAP	0.0010		**0.306**	mg/L	5	02/28/2024 2:18	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:18	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:18	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:29	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 02/21/2024 13:41

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	02/21/2024 13:41	R343702
Depth to water	*	-5.00		**6.21**	ft	1	02/21/2024 13:41	R343702
Depth to water from measuring point	*	0		**8.48**	ft	1	02/21/2024 13:41	R343702
Elevation of groundwater surface	*	0		**526.89**	ft	1	02/21/2024 13:41	R343702
Measuring Point Elevation	*	0		**535.37**	ft	1	02/21/2024 13:41	R343702
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	02/21/2024 13:41	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**28**	NTU	1	02/21/2024 13:41	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	02/21/2024 13:41	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	02/21/2024 13:41	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	02/21/2024 13:41	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1400**	mg/L	2.5	02/23/2024 10:04	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**790**	mg/L	20	02/22/2024 22:32	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.18**	mg/L	1	02/23/2024 13:18	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**54**	mg/L	2	02/22/2024 22:26	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.292**	mg/L	1	02/26/2024 18:52	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 18:52	219117
Boron	NELAP	0.200		**23.5**	mg/L	10	02/28/2024 13:38	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 18:52	219117
Calcium	NELAP	0.100		**250**	mg/L	1	02/26/2024 18:52	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:52	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 18:52	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 18:52	219117
Lithium	NELAP	0.0050		**0.0099**	mg/L	1	02/26/2024 18:52	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 18:52	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:24	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:24	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:31	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 02/22/2024 11:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	02/22/2024 11:24	R343702
Depth to water	*	-5.00		**4.61**	ft	1	02/22/2024 11:24	R343702
Depth to water from measuring point	*	0		**7.11**	ft	1	02/22/2024 11:24	R343702
Elevation of groundwater surface	*	0		**528.99**	ft	1	02/22/2024 11:24	R343702
Measuring Point Elevation	*	0		**536.10**	ft	1	02/22/2024 11:24	R343702
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	02/22/2024 11:24	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**20**	NTU	1	02/22/2024 11:24	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.6**	°F	1	02/22/2024 11:24	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.41**		1	02/22/2024 11:24	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1190**	µmhos/cm @25C	1	02/22/2024 11:24	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1020**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**393**	mg/L	20	02/23/2024 12:55	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	02/23/2024 13:26	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**39**	mg/L	2	02/23/2024 12:50	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0678**	mg/L	1	02/26/2024 19:01	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:01	219117
Boron	NELAP	0.0200		**3.38**	mg/L	1	02/26/2024 19:01	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:01	219117
Calcium	NELAP	0.100		**210**	mg/L	1	02/26/2024 19:01	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:01	219117
Cobalt	NELAP	0.0050		**0.0068**	mg/L	1	02/26/2024 19:01	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:01	219117
Lithium	NELAP	0.0050		**0.0059**	mg/L	1	02/26/2024 19:01	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:01	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:30	219117
Arsenic	NELAP	0.0010		**0.0027**	mg/L	5	02/28/2024 2:30	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 2:30	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 2:30	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:33	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 02/22/2024 12:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	02/22/2024 12:03	R343702
Depth to water	*	-5.00		**7.62**	ft	1	02/22/2024 12:03	R343702
Depth to water from measuring point	*	0		**9.32**	ft	1	02/22/2024 12:03	R343702
Elevation of groundwater surface	*	0		**526.08**	ft	1	02/22/2024 12:03	R343702
Measuring Point Elevation	*	0		**535.40**	ft	1	02/22/2024 12:03	R343702
Measuring Point Height Above Land Surface	*	0		**1.70**	ft	1	02/22/2024 12:03	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	02/22/2024 12:03	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/22/2024 12:03	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.55**		1	02/22/2024 12:03	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1050**	µmhos/cm @25C	1	02/22/2024 12:03	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**935**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**512**	mg/L	20	02/23/2024 13:03	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.17**	mg/L	1	02/23/2024 13:28	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**54**	mg/L	2	02/23/2024 12:58	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0952**	mg/L	1	02/26/2024 19:02	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:02	219117
Boron	NELAP	0.0200		**14.8**	mg/L	1	02/26/2024 19:02	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:02	219117
Calcium	NELAP	0.100		**177**	mg/L	1	02/26/2024 19:02	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:02	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:02	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:02	219117
Lithium	NELAP	0.0050		**0.0062**	mg/L	1	02/26/2024 19:02	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:02	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 11:23	219117
Arsenic	NELAP	0.0010		**0.0101**	mg/L	5	02/28/2024 3:18	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:18	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:18	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:36	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 02/23/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	02/23/2024 11:21	R343702
Depth to water	*	-5.00		**5.90**	ft	1	02/23/2024 11:21	R343702
Depth to water from measuring point	*	0		**9.04**	ft	1	02/23/2024 11:21	R343702
Elevation of groundwater surface	*	0		**546.56**	ft	1	02/23/2024 11:21	R343702
Measuring Point Elevation	*	0		**555.60**	ft	1	02/23/2024 11:21	R343702
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	02/23/2024 11:21	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**38**	NTU	1	02/23/2024 11:21	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	02/23/2024 11:21	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	02/23/2024 11:21	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**847**	µmhos/cm @25C	1	02/23/2024 11:21	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**520**	mg/L	2.5	02/26/2024 10:02	R343638
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	02/28/2024 16:56	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.16**	mg/L	1	02/26/2024 13:04	R343547
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**13**	mg/L	1	02/28/2024 16:56	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.390**	mg/L	1	02/27/2024 13:38	219154
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/27/2024 13:38	219154
Boron	NELAP	0.0200		**0.0871**	mg/L	1	02/27/2024 13:38	219154
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/27/2024 13:38	219154
Calcium	NELAP	0.100		**119**	mg/L	1	02/27/2024 13:38	219154
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 13:38	219154
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 13:38	219154
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/27/2024 13:38	219154
Lithium	NELAP	0.0050		**0.0076**	mg/L	1	02/27/2024 13:38	219154
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/27/2024 13:38	219154
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	**< 0.0010**	mg/L	5	02/28/2024 16:03	219154
Arsenic	NELAP	0.0010		**0.0375**	mg/L	5	02/28/2024 16:03	219154
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 16:03	219154
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 16:03	219154
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/29/2024 17:17	219164
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 02/22/2024 13:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	02/22/2024 13:44	R343702
Depth to water	*	-5.00		**13.65**	ft	1	02/22/2024 13:44	R343702
Depth to water from measuring point	*	0		**15.95**	ft	1	02/22/2024 13:44	R343702
Elevation of groundwater surface	*	0		**567.95**	ft	1	02/22/2024 13:44	R343702
Measuring Point Elevation	*	0		**583.90**	ft	1	02/22/2024 13:44	R343702
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	02/22/2024 13:44	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**< 1.0**	NTU	1	02/22/2024 13:44	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/22/2024 13:44	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	02/22/2024 13:44	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**591**	µmhos/cm @25C	1	02/22/2024 13:44	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**434**	mg/L	1	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**50**	mg/L	2	02/23/2024 13:11	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	02/23/2024 13:30	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	02/23/2024 13:06	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0515**	mg/L	1	02/26/2024 19:04	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:04	219117
Boron	NELAP	0.0200		**0.0434**	mg/L	1	02/26/2024 19:04	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:04	219117
Calcium	NELAP	0.100		**96.7**	mg/L	1	02/26/2024 19:04	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:04	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:04	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:04	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:24	219117
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:24	219117
Selenium	NELAP	0.0010		**0.0011**	mg/L	5	02/28/2024 3:24	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:24	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:38	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 02/22/2024 10:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	02/22/2024 10:40	R343702
Depth to water	*	-5.00		**5.43**	ft	1	02/22/2024 10:40	R343702
Depth to water from measuring point	*	0		**7.85**	ft	1	02/22/2024 10:40	R343702
Elevation of groundwater surface	*	0		**529.97**	ft	1	02/22/2024 10:40	R343702
Measuring Point Elevation	*	0		**537.82**	ft	1	02/22/2024 10:40	R343702
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	02/22/2024 10:40	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	02/22/2024 10:40	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/22/2024 10:40	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	02/22/2024 10:40	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**612**	µmhos/cm @25C	1	02/22/2024 10:40	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**380**	mg/L	2.5	02/23/2024 12:34	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	02/23/2024 13:14	R343641
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.37**	mg/L	1	02/23/2024 13:32	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**30**	mg/L	1	02/23/2024 13:14	R343643
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.119**	mg/L	1	02/26/2024 19:06	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:06	219117
Boron	NELAP	0.0200		**0.171**	mg/L	1	02/26/2024 19:06	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:06	219117
Calcium	NELAP	0.100		**61.4**	mg/L	1	02/26/2024 19:06	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:06	219117
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:06	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:06	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:30	219117
Arsenic	NELAP	0.0010		**0.0068**	mg/L	5	02/28/2024 3:30	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:30	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:30	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:51	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 02/26/2024 14:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	02/26/2024 14:20	R343702
Depth to water	*	-5.00		**8.42**	ft	1	02/26/2024 14:20	R343702
Depth to water from measuring point	*	0		**11.08**	ft	1	02/26/2024 14:20	R343702
Elevation of groundwater surface	*	0		**527.94**	ft	1	02/26/2024 14:20	R343702
Measuring Point Elevation	*	0		**539.02**	ft	1	02/26/2024 14:20	R343702
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	02/26/2024 14:20	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	02/26/2024 14:20	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	02/26/2024 14:20	R343702
SW-846 9040B								
pH, Field	*	1.00		**7.15**		1	02/26/2024 14:20	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**646**	µmhos/cm @25C	1	02/26/2024 14:20	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**330**	mg/L	5	02/28/2024 7:46	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**17**	mg/L	1	02/28/2024 17:04	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.44**	mg/L	1	02/27/2024 9:22	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**42**	mg/L	1	02/28/2024 17:04	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.118**	mg/L	1	02/29/2024 16:41	219241
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/29/2024 16:41	219241
Boron	NELAP	0.0200		**0.173**	mg/L	1	02/29/2024 16:41	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:41	219241
Calcium	NELAP	0.100	B	**55.6**	mg/L	1	02/29/2024 16:41	219241
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:41	219241
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:41	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:41	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:00	219241
Arsenic	NELAP	0.0010		**0.0555**	mg/L	5	03/01/2024 12:00	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:00	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 4:48	219241
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/04/2024 17:37	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 02/26/2024 14:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 02/21/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	02/21/2024 12:24	R343702
Depth to water	*	-5.00		**1.58**	ft	1	02/21/2024 12:24	R343702
Depth to water from measuring point	*	0		**4.48**	ft	1	02/21/2024 12:24	R343702
Elevation of groundwater surface	*	0		**532.72**	ft	1	02/21/2024 12:24	R343702
Measuring Point Elevation	*	0		**537.20**	ft	1	02/21/2024 12:24	R343702
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/21/2024 12:24	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.7**	NTU	1	02/21/2024 12:24	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	02/21/2024 12:24	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	02/21/2024 12:24	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**861**	µmhos/cm @25C	1	02/21/2024 12:24	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**520**	mg/L	2.5	02/23/2024 10:04	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	02/22/2024 22:34	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	02/23/2024 13:23	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**24**	mg/L	1	02/22/2024 22:34	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.374**	mg/L	1	02/26/2024 19:07	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:07	219117
Boron	NELAP	0.0200		**0.0866**	mg/L	1	02/26/2024 19:07	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:07	219117
Calcium	NELAP	0.100		**99.3**	mg/L	1	02/26/2024 19:07	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:07	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:07	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:07	219117
Lithium	NELAP	0.0050		**0.0069**	mg/L	1	02/26/2024 19:07	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:07	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:36	219117
Arsenic	NELAP	0.0010		**0.0426**	mg/L	5	02/28/2024 3:36	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:36	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:36	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:54	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 02/26/2024 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**501.80**	ft	1	02/26/2024 13:50	R343702
Depth to water	*	-5.00		**8.95**	ft	1	02/26/2024 13:50	R343702
Depth to water from measuring point	*	0		**12.05**	ft	1	02/26/2024 13:50	R343702
Elevation of groundwater surface	*	0		**528.25**	ft	1	02/26/2024 13:50	R343702
Measuring Point Elevation	*	0		**540.30**	ft	1	02/26/2024 13:50	R343702
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/26/2024 13:50	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	02/26/2024 13:50	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	02/26/2024 13:50	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	02/26/2024 13:50	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**813**	µmhos/cm @25C	1	02/26/2024 13:50	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**530**	mg/L	5	02/28/2024 8:02	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**23**	mg/L	1	02/28/2024 17:15	R343726
Matrix spike did not recover within control limits. Results verified by dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	02/27/2024 9:24	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**25**	mg/L	1	02/28/2024 17:15	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.378**	mg/L	1	02/29/2024 16:42	219241
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/29/2024 16:42	219241
Boron	NELAP	0.0200		**0.0932**	mg/L	1	02/29/2024 16:42	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:42	219241
Calcium	NELAP	0.100	B	**97.9**	mg/L	1	02/29/2024 16:42	219241
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:42	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:42	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:42	219241
Lithium	NELAP	0.0050		**0.0059**	mg/L	1	02/29/2024 16:42	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:42	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:06	219241
Arsenic	NELAP	0.0010		**0.0037**	mg/L	5	03/01/2024 12:06	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:06	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 4:53	219241
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/04/2024 17:50	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 02/26/2024 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 02/21/2024 14:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	02/21/2024 14:36	R343702
Depth to water	*	-5.00		**-0.28**	ft	1	02/21/2024 14:36	R343702
Depth to water from measuring point	*	0		**2.82**	ft	1	02/21/2024 14:36	R343702
Elevation of groundwater surface	*	0		**534.68**	ft	1	02/21/2024 14:36	R343702
Measuring Point Elevation	*	0		**537.50**	ft	1	02/21/2024 14:36	R343702
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	02/21/2024 14:36	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	02/21/2024 14:36	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	02/21/2024 14:36	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	02/21/2024 14:36	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1010**	µmhos/cm @25C	1	02/21/2024 14:36	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**745**	mg/L	2.5	02/23/2024 10:05	R343558
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**96**	mg/L	5	02/22/2024 23:01	R343452
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	02/23/2024 13:25	R343485
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/22/2024 22:56	R343454
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.613**	mg/L	1	02/26/2024 19:09	219117
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/26/2024 19:09	219117
Boron	NELAP	0.0200		**3.71**	mg/L	1	02/26/2024 19:09	219117
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/26/2024 19:09	219117
Calcium	NELAP	0.100		**141**	mg/L	1	02/26/2024 19:09	219117
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:09	219117
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/26/2024 19:09	219117
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/26/2024 19:09	219117
Lithium	NELAP	0.0050		**0.0090**	mg/L	1	02/26/2024 19:09	219117
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/26/2024 19:09	219117
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:42	219117
Arsenic	NELAP	0.0010		**0.0011**	mg/L	5	02/28/2024 3:42	219117
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 3:42	219117
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 3:42	219117
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/23/2024 15:56	219103
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 02/26/2024 11:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	02/26/2024 11:08	R343702
Depth to water	*	-5.00		**11.62**	ft	1	02/26/2024 11:08	R343702
Depth to water from measuring point	*	0		**14.42**	ft	1	02/26/2024 11:08	R343702
Elevation of groundwater surface	*	0		**523.68**	ft	1	02/26/2024 11:08	R343702
Measuring Point Elevation	*	0		**538.10**	ft	1	02/26/2024 11:08	R343702
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/26/2024 11:08	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.2**	NTU	1	02/26/2024 11:08	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	02/26/2024 11:08	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.45**		1	02/26/2024 11:08	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1100**	µmhos/cm @25C	1	02/26/2024 11:08	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**665**	mg/L	2.5	02/28/2024 8:02	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**89**	mg/L	5	02/28/2024 17:52	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	02/27/2024 9:26	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**122**	mg/L	5	02/28/2024 17:52	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.154**	mg/L	1	02/29/2024 16:44	219241
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/29/2024 16:44	219241
Boron	NELAP	0.0200		**0.232**	mg/L	1	02/29/2024 16:44	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:44	219241
Calcium	NELAP	0.100	B	**150**	mg/L	1	02/29/2024 16:44	219241
Chromium	NELAP	0.0050		**0.0081**	mg/L	1	02/29/2024 16:44	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:44	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:44	219241
Lithium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:44	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:44	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:12	219241
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	03/01/2024 12:12	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:12	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 4:59	219241
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**0.00021**	mg/L	1	03/04/2024 17:52	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 02/26/2024 11:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 02/26/2024 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	02/26/2024 12:00	R343702
Depth to water	*	-5.00		**14.45**	ft	1	02/26/2024 12:00	R343702
Depth to water from measuring point	*	0		**17.35**	ft	1	02/26/2024 12:00	R343702
Elevation of groundwater surface	*	0		**523.35**	ft	1	02/26/2024 12:00	R343702
Measuring Point Elevation	*	0		**540.70**	ft	1	02/26/2024 12:00	R343702
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	02/26/2024 12:00	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**27**	NTU	1	02/26/2024 12:00	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.6**	°F	1	02/26/2024 12:00	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.53**		1	02/26/2024 12:00	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1400**	µmhos/cm @25C	1	02/26/2024 12:00	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1290**	mg/L	2.5	02/28/2024 8:02	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**460**	mg/L	10	02/28/2024 17:55	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	02/27/2024 9:28	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	40		**115**	mg/L	10	02/28/2024 17:55	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0569**	mg/L	1	02/29/2024 16:53	219241
Beryllium	NELAP	0.0005		**0.0006**	mg/L	1	02/29/2024 16:53	219241
Boron	NELAP	0.0200		**0.0210**	mg/L	1	02/29/2024 16:53	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:53	219241
Calcium	NELAP	0.100	B	**228**	mg/L	1	02/29/2024 16:53	219241
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:53	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:53	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:53	219241
Lithium	NELAP	0.0050		**0.0064**	mg/L	1	02/29/2024 16:53	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:53	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:17	219241
Arsenic	NELAP	0.0010		**0.0013**	mg/L	5	03/01/2024 13:21	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 0:17	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 5:04	219241
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/04/2024 17:55	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 02/26/2024 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 02/26/2024 12:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	02/26/2024 12:34	R343702
Depth to water	*	-5.00		**13.70**	ft	1	02/26/2024 12:34	R343702
Depth to water from measuring point	*	0		**17.10**	ft	1	02/26/2024 12:34	R343702
Elevation of groundwater surface	*	0		**524.90**	ft	1	02/26/2024 12:34	R343702
Measuring Point Elevation	*	0		**542.00**	ft	1	02/26/2024 12:34	R343702
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	02/26/2024 12:34	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	02/26/2024 12:34	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.8**	°F	1	02/26/2024 12:34	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.73**		1	02/26/2024 12:34	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**710**	µmhos/cm @25C	1	02/26/2024 12:34	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**500**	mg/L	2.5	02/28/2024 8:03	R343743
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**118**	mg/L	5	02/28/2024 18:08	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	02/27/2024 9:35	R343589
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	02/28/2024 18:03	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.116**	mg/L	1	02/29/2024 16:55	219241
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/29/2024 16:55	219241
Boron	NELAP	0.0200		**0.0356**	mg/L	1	02/29/2024 16:55	219241
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/29/2024 16:55	219241
Calcium	NELAP	0.100	B	**101**	mg/L	1	02/29/2024 16:55	219241
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:55	219241
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/29/2024 16:55	219241
Lead	NELAP	0.0150	B	**< 0.0150**	mg/L	1	02/29/2024 16:55	219241
Lithium	NELAP	0.0050		**0.0109**	mg/L	1	02/29/2024 16:55	219241
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/29/2024 16:55	219241
Sample result(s) for Ca exceed 10 times the method blank contamination. Data is reportable per the TNI Standard.								
Contamination present in the MBLK for Pb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 1:04	219241
Arsenic	NELAP	0.0010		**0.0028**	mg/L	5	03/01/2024 13:26	219241
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/29/2024 1:04	219241
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/01/2024 5:10	219241
CCV recovered outside the upper control limits for Sb and Se. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/04/2024 17:57	219343
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 02/26/2024 12:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Client: City Water, Light & Power
Work Order: 24010117
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Mar-24
Lab ID: 24010117-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 02/23/2024 10:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	02/23/2024 10:25	R343702
Depth to water	*	-5.00		**-1.08**	ft	1	02/23/2024 10:25	R343702
Depth to water from measuring point	*	0		**1.72**	ft	1	02/23/2024 10:25	R343702
Elevation of groundwater surface	*	0		**537.88**	ft	1	02/23/2024 10:25	R343702
Measuring Point Elevation	*	0		**539.60**	ft	1	02/23/2024 10:25	R343702
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/23/2024 10:25	R343702
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	02/23/2024 10:25	R343702
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**52.5**	°F	1	02/23/2024 10:25	R343702
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	02/23/2024 10:25	R343702
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1530**	µmhos/cm @25C	1	02/23/2024 10:25	R343702
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1510**	mg/L	2.5	02/26/2024 10:03	R343638
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**679**	mg/L	20	02/28/2024 18:16	R343726
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.30**	mg/L	1	02/26/2024 13:07	R343547
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**82**	mg/L	5	02/28/2024 18:11	R343732
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0422**	mg/L	1	02/27/2024 17:40	219154
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/27/2024 17:40	219154
Boron	NELAP	0.200		**21.6**	mg/L	10	02/29/2024 14:02	219154
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/27/2024 17:40	219154
Calcium	NELAP	0.100		**263**	mg/L	1	02/27/2024 17:40	219154
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 17:40	219154
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/27/2024 17:40	219154
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	02/27/2024 17:40	219154
Lithium	NELAP	0.0050		**0.0076**	mg/L	1	02/27/2024 17:40	219154
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/27/2024 17:40	219154
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	**< 0.0010**	mg/L	5	02/28/2024 16:10	219154
Arsenic	NELAP	0.0010		**0.0039**	mg/L	5	02/28/2024 16:10	219154
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/28/2024 16:10	219154
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/28/2024 16:10	219154
Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/29/2024 17:20	219164
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494
Radium-228	*	0		**See Attached**	pci/L	1	03/08/2024 0:00	R344494

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24010117
Report Date: 18-Mar-24

Carrier: Tracy Carroll

Received By: AMD

Completed by: Amber Dilallo
On: 22-Feb-24

Reviewed by: Ellie Hopkins
On: 27-Feb-24

Pages to follow: Chain of custody 6 Extra pages included 50

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 3.3
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #90719. - amberdilallo - 2/22/2024 8:40:42 AM

Samples were received on 2/22/24 at 15:40 on ice [7.3C - LTG5]. pH strip #90719. Collection date per Tracy Carroll. - amberdilallo - 2/22/2024 4:41:18 PM

Samples were received on 2/23/24 at 13:07 on ice [6.7C - LTG#7]. pH strip #90719. Additional Nitric Acid (96331) preservative was needed for AP-4 & AP-14 upon arrival at the laboratory. - nickreed - 2/23/2024 2:35:40 PM

Samples were received on 2/26/24 at 18:45 on ice [5.3c - LTG5]. pH strip #90719. - amberdilallo - 2/27/2024 8:11:24 AM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 3.3 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY LJ65
LAB NOTES: 40719 SM 2/22/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarroll

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3	2/21/24 1138	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	2/21/24 1341	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8	2/21/24 1224	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	2/21/24 1436	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tiffany Carroll	2/21/24 1715	[illegible]	2/21/24 1715

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 9.3 °C L1605
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: 9019 Dup 2 vapes

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring
Date per Tracy Carroll. SMM 2/22/24

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarrd

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2	2/22/24 1124	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3	1203	Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5	1344	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6	1040	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/22/24 3:40	Emily Sackett	2/22/24 1540

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 6.7 °C 7
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: ph ✓ 4071a added HNO3 (96331) ES 2/23/24 to 2 liters

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER	SAMPLE COLLECTOR'S NAME
Ash Pond Monitoring Wells	TCarroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24010117-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
005	AP-4	2/23/24 1121	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓								

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/23/24 1107	Whitney Dunger	2/23/24 1107

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarrell

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	2/23/24 1025	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carrell	2/23/24 1:07	Whitney Lewis	2/23/24 1:35

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 5.3 °C
Preserved in: [ ] LAB [✓] FIELD FOR LAB USE ONLY LTG 5
LAB NOTES: 401A SM 2/27/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarroll

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	2/26/24 1420	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	2/26/24 1350	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/26/24 1845	Damon Dicalle	2/26/24 1845

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24010117

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:
AP-11, AP-12 & AP-13 finals per Tracy Carroll SM 2/27/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: TCarroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24010117-01	AP-11	2/26/24 1108	Groundwater	1	2								✔	✔	✔	✔	✔	✔
-02	AP-12	1200	Groundwater	1	2								✔	✔	✔	✔	✔	✔
-03	AP-13	1234	Groundwater	1	2								✔	✔	✔	✔	✔	✔
-04	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	2/26/24 1845	SM Dollins	2/26/24 1845

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Site Sampling Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

			Weather				Well Condition				
WO Sample	Well ID	Program/ Sample Type	Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
001	RW-3	Groundwater Sample	57.0	None	N	Clear	Good	Good	Good	Yes	No
002	AP-1	Groundwater Sample	59.0	None	N	Clear	Good	Good	Good	No	No
003	AP-2	Groundwater Sample	60.0	None	W	Cloudy	Good	Good	Good	No	No
004	AP-3	Groundwater Sample	62.0	None	W	Clear	Good	Good	Good	Yes	No
005	AP-4	Groundwater Sample	50.0	None	SE	Clear	Good	Good	Good	Yes	No
006	AP-5	Groundwater Sample	63.0	None	W	Clear	Good	Good	Good	Yes	No
007	AP-6	Groundwater Sample	60.0	None	W	Cloudy	Good	Good	Good	No	No
008	AP-7	Groundwater Sample	74.0	None	N	Clear	Good	Good	Good	No	No
009	AP-8	Groundwater Sample	57.0	None	N	Clear	Good	Good	Good	No	No
010	AP-9	Groundwater Sample	74.0	None	N	Clear	Good	Good	Good	No	No
011	AP-10	Groundwater Sample	60.0	None	N	Clear	Good	Good	Good	No	No
012	AP-11	Groundwater Sample	64.0	None	N	Clear	Good	Good	Good	No	No
013	AP-12	Groundwater Sample	67.0	None	N	Clear	Good	Good	Good	No	No
014	AP-13	Groundwater Sample	70.0	None	N	Clear	Good	Good	Good	No	No
015	AP-14	Groundwater Sample	45.0	None	SE	Clear	Good	Good	Good	Yes	No

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	Well ID	Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
001	RW-3	DC	2/21/24 11:20	9.10	44.01	DC	2/21/2024	11:21	11:38	Bladder Pump	2"	4.0	235.3
002	AP-1	DC	2/21/24 12:42	8.48	31.08	DC	2/21/2024	13:27	13:41	Bladder Pump	2"	3.0	214.3
003	AP-2	DC	2/22/24 10:58	7.11	21.33	DC	2/22/2024	10:59	11:24	Bladder Pump	2"	6.0	240.0
004	AP-3	DC	2/22/24 11:44	9.32	-	DC	2/22/2024	11:45	12:03	Bladder Pump	2"	4.0	222.2
005	AP-4	DC	2/23/24 10:46	9.04	60.41	DC	2/23/2024	10:47	11:21	Bladder Pump	2"	9.0	264.7
006	AP-5	DC	2/22/24 13:21	15.95	31.27	DC	2/22/2024	13:22	13:44	Bladder Pump	2"	5.0	227.3
007	AP-6	DC	2/22/24 10:22	7.85	39.62	DC	2/22/2024	10:24	10:40	Bladder Pump	2"	3.0	187.5
008	AP-7	DC	2/26/24 14:04	11.08	42.52	DC	2/26/2024	14:05	14:20	Bladder Pump	2"	3.0	200.0
009	AP-8	DC	2/21/24 12:07	4.48	39.60	DC	2/21/2024	12:08	12:24	Peristaltic Pump	2"	4.0	250.0
010	AP-9	DC	2/26/24 13:27	12.05	39.60	DC	2/26/2024	13:30	13:50	Peristaltic Pump	2"	5.0	250.0
011	AP-10	DC	2/21/24 14:04	2.82	38.07	DC	2/21/2024	14:05	14:36	Peristaltic Pump	2"	6.0	193.5
012	AP-11	DC	2/26/24 10:46	14.42	22.95	DC	2/26/2024	10:50	11:08	Peristaltic Pump	2"	4.0	222.2
013	AP-12	DC	2/26/24 11:22	17.35	30.40	DC	2/26/2024	11:22	12:00	Peristaltic Pump	2"	8.0	210.5
014	AP-13	DC	2/26/24 12:11	17.10	31.00	DC	2/26/2024	12:12	12:34	Peristaltic Pump	2"	6.0	272.7
015	AP-14	DC	2/23/24 9:57	1.72	31.20	DC	2/23/2024	09:58	10:25	Peristaltic Pump	2"	6.0	222.2

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

		Sampling Activities and Observations									
WO Sample	**Well ID**	**Sampler Initials**	**Date**	**Time**	**Sampling Method**	**Field Filtered**	**Appearance**	**Odor**	**Color**	**Post-Sample DTW (ft)**	**Drawdown (ft)**
001	RW-3	TAC	02/21/24	11:38	Low Flow	Yes	Clear	None	None	13.25	**4.15**
002	AP-1	TAC	02/21/24	13:41	Low Flow	No	Clear	None	None	9.00	**0.52**
003	AP-2	TAC	02/22/24	11:24	Low Flow	No	Clear	None	None	7.20	0.09
004	AP-3	TAC	02/22/24	12:03	Low Flow	No	Clear	None	None	9.68	0.36
005	AP-4	TAC	02/23/24	11:21	Low Flow	No	Clear	None	None	9.21	0.17
006	AP-5	TAC	02/22/24	13:44	Low Flow	No	Clear	None	None	17.45	**1.5**
007	AP-6	TAC	02/22/24	10:40	Low Flow	No	Clear	None	None	12.45	**4.6**
008	AP-7	TAC	02/26/24	14:20	Low Flow	No	Clear	None	None	13.29	**2.21**
009	AP-8	TAC	02/21/24	12:24	Low Flow	No	Clear	None	None	4.84	0.36
010	AP-9	TAC	02/26/24	13:50	Low Flow	No	Clear	None	None	16.30	**4.25**
011	AP-10	TAC	02/21/24	14:36	Low Flow	No	Clear	Slight	None	3.11	0.29
012	AP-11	TAC	02/26/24	11:08	Low Flow	No	Clear	None	None	14.95	**0.53**
013	AP-12	TAC	02/26/24	12:00	Low Flow	No	Slightly cloudy	Slight	light grey	18.64	**1.29**
014	AP-13	TAC	02/26/24	12:34	Low Flow	No	Clear	Slight	None	18.86	**1.76**
015	AP-14	TAC	02/23/24	10:25	Low Flow	No	Cloudy	None	None	1.90	0.18

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Groundwater Sampling Summary
CWLP- Ash Pond- 1Q 2024

WO Sample	Well ID	COMMENTS
001	RW-3	
002	AP-1	
003	AP-2	
004	AP-3	
005	AP-4	
006	AP-5	
007	AP-6	
008	AP-7	
009	AP-8	
010	AP-9	
011	AP-10	
012	AP-11	
013	AP-12	
014	AP-13	
015	AP-14	

Site Samping Event: CWLP Ash Pond- 1Q24
LIMS Workorder: 24010117
Technician(s): DC, JC, TC, BG

Stabilized Field Parameters Summary
CWLP- Ash Pond- 1Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
RW-3	2/21/2024	11:38	14.0	57.2	7.10	647.6	0.78	124.34	-134.4	9.10	24010117-001A
AP-1	2/21/2024	13:41	15.0	59.0	6.51	1,473.8	1.00	28.16	-3.1	8.48	24010117-002A
AP-2	2/22/2024	11:24	13.1	55.6	6.41	1,190.1	0.56	20.20	115.3	7.11	24010117-003A
AP-3	2/22/2024	12:03	12.8	55.0	6.55	1,048.2	0.65	21.97	78.1	9.32	24010117-004A
AP-4	2/23/2024	11:21	15.5	59.9	6.86	847.4	0.50	38.35	-53.3	9.04	24010117-005A
AP-5	2/22/2024	13:44	14.0	57.2	7.01	590.8	2.26	0.66	63.7	15.95	24010117-006A
AP-6	2/22/2024	10:40	12.8	55.0	6.97	612.2	3.76	12.97	113.0	7.85	24010117-007A
AP-7	2/26/2024	14:20	14.0	57.2	7.15	646.0	1.56	33.97	-88.6	11.08	24010117-008A
AP-8	2/21/2024	12:24	13.5	56.3	6.83	860.7	0.74	6.66	-76.0	4.48	24010117-009A
AP-9	2/26/2024	13:50	15.1	59.2	6.82	813.3	1.06	23.11	-49.8	12.05	24010117-010A
AP-10	2/21/2024	14:36	13.7	56.7	6.65	1,006.6	2.23	34.31	-18.7	2.82	24010117-011A
AP-11	2/26/2024	11:08	12.8	55.0	6.45	1,103.0	1.12	5.21	86.7	14.42	24010117-012A
AP-12	2/26/2024	12:00	14.2	57.6	6.53	1,396.3	0.67	27.25	-25.8	17.35	24010117-013A
AP-13	2/26/2024	12:34	13.8	56.8	6.73	709.8	0.87	10.08	-47.2	17.10	24010117-014A
AP-14	2/23/2024	10:25	11.4	52.5	6.93	1,529.4	1.44	24.44	97.8	1.72	24010117-015A

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
RW-3	2/21/2024	11:32	9.10	13.9	57.0	7.11	648.4	0.89	46.09	-126.70
RW-3	2/21/2024	11:35	9.10	13.9	57.0	7.10	647.6	0.83	90.21	-131.90
RW-3	2/21/2024	11:38	9.10	14.0	57.2	7.10	647.6	0.78	124.34	-134.40

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-1	2/21/2024	13:35	8.48	14.8	58.6	6.51	1,441.3	1.21	29.57	50.10
AP-1	2/21/2024	13:38	8.48	14.7	58.5	6.51	1,459.6	1.04	30.53	22.00
AP-1	2/21/2024	13:41	8.48	15.0	59.0	6.51	1,473.8	1.00	28.16	-3.10

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-2	2/22/2024	11:15	7.11	12.8	55.0	6.42	1,189.9	0.69	66.56	119.50
AP-2	2/22/2024	11:18	7.11	12.9	55.2	6.42	1,185.7	0.64	39.12	118.10
AP-2	2/22/2024	11:21	7.11	12.9	55.2	6.42	1,187.5	0.60	30.02	116.60
AP-2	2/22/2024	11:24	7.11	13.1	55.6	6.41	1,190.1	0.56	20.20	115.30

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-3	2/22/2024	11:54	9.32	12.6	54.7	6.61	1,022.4	1.28	128.69	98.60
AP-3	2/22/2024	11:57	9.32	12.7	54.9	6.57	1,030.4	0.91	56.27	91.00
AP-3	2/22/2024	12:00	9.32	12.8	55.0	6.56	1,040.2	0.75	39.31	84.30
AP-3	2/22/2024	12:03	9.32	12.8	55.0	6.55	1,048.2	0.65	21.97	78.10

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-4	2/23/2024	11:12	9.04	15.5	59.9	6.86	848.3	0.58	24.99	-12.80
AP-4	2/23/2024	11:15	9.04	15.5	59.9	6.86	849.4	0.54	34.01	-29.30
AP-4	2/23/2024	11:18	9.04	15.5	59.9	6.86	848.1	0.52	28.31	-42.70
AP-4	2/23/2024	11:21	9.04	15.5	59.9	6.86	847.4	0.50	38.35	-53.30

Site Sampling Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-5	2/22/2024	13:35	15.95	14.1	57.4	7.07	590.0	2.93	2.05	62.70
AP-5	2/22/2024	13:38	15.95	13.9	57.0	7.04	589.9	2.61	1.74	63.20
AP-5	2/22/2024	13:41	15.95	13.8	56.8	7.03	589.2	2.38	1.04	63.60
AP-5	2/22/2024	13:44	15.95	14.0	57.2	7.01	590.8	2.26	0.66	63.70

Site Sampling Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-6	2/22/2024	10:31	7.85	12.7	54.9	6.87	676.1	2.30	15.94	119.40
AP-6	2/22/2024	10:34	7.85	12.8	55.0	6.92	634.6	3.12	14.77	117.00
AP-6	2/22/2024	10:37	7.85	12.8	55.0	6.95	618.1	3.63	14.39	114.60
AP-6	2/22/2024	10:40	7.85	12.8	55.0	6.97	612.2	3.76	12.97	113.00

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-7	2/26/2024	14:14	11.08	14.5	58.1	7.19	666.9	2.50	15.92	-43.90
AP-7	2/26/2024	14:17	11.08	14.0	57.2	7.15	651.6	1.80	30.93	-71.30
AP-7	2/26/2024	14:20	11.08	14.0	57.2	7.15	646.0	1.56	33.97	-88.60

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-8	2/21/2024	12:18	4.48	13.5	56.3	6.84	857.8	0.91	6.45	-50.90
AP-8	2/21/2024	12:21	4.48	13.5	56.3	6.83	860.3	0.82	7.31	-66.90
AP-8	2/21/2024	12:24	4.48	13.5	56.3	6.83	860.7	0.74	6.66	-76.00

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-9	2/26/2024	13:41	12.05	15.1	59.2	6.83	818.4	1.46	41.48	6.90
AP-9	2/26/2024	13:44	12.05	15.2	59.4	6.83	818.0	1.33	36.68	-18.80
AP-9	2/26/2024	13:47	12.05	15.2	59.4	6.82	816.2	1.17	27.62	-36.90
AP-9	2/26/2024	13:50	12.05	15.1	59.2	6.82	813.3	1.06	23.11	-49.80

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-10	2/21/2024	14:30	2.82	13.6	56.5	6.65	999.5	2.69	40.08	0.20
AP-10	2/21/2024	14:33	2.82	13.7	56.7	6.65	1,006.1	2.48	36.94	-10.20
AP-10	2/21/2024	14:36	2.82	13.7	56.7	6.65	1,006.6	2.23	34.31	-18.70

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-11	2/26/2024	11:02	14.42	12.7	54.9	6.42	1,110.3	1.39	7.26	85.50
AP-11	2/26/2024	11:05	14.42	12.7	54.9	6.43	1,106.0	1.22	6.62	86.30
AP-11	2/26/2024	11:08	14.42	12.8	55.0	6.45	1,103.0	1.12	5.21	86.70

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-12	2/26/2024	11:51	17.35	14.1	57.4	6.53	1,404.8	0.68	32.04	-18.60
AP-12	2/26/2024	11:54	17.35	14.2	57.6	6.53	1,401.3	0.66	24.22	-21.40
AP-12	2/26/2024	11:57	17.35	14.2	57.6	6.53	1,399.1	0.66	32.32	-23.90
AP-12	2/26/2024	12:00	17.35	14.2	57.6	6.53	1,396.3	0.67	27.25	-25.80

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-13	2/26/2024	12:25	17.10	13.9	57.0	6.76	708.6	1.08	12.84	-31.60
AP-13	2/26/2024	12:28	17.10	13.9	57.0	6.75	710.6	1.00	12.91	-37.70
AP-13	2/26/2024	12:31	17.10	13.8	56.8	6.74	709.8	1.03	12.76	-42.80
AP-13	2/26/2024	12:34	17.10	13.8	56.8	6.73	709.8	0.87	10.08	-47.20

Site Samping Event: CWLP Ash Pond- 1Q24 **Groundwater Sampling Form- Groundwater Quality Parameters**
LIMS Workorder: 24010117 **CWLP- Ash Pond- 1Q 2024**
Technician(s): DC, JC, TC, BG

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µS/cm)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-14	2/23/2024	10:19	1.72	11.2	52.2	6.92	1,539.7	1.50	36.92	102.60
AP-14	2/23/2024	10:22	1.72	11.2	52.2	6.93	1,529.0	1.33	23.39	100.00
AP-14	2/23/2024	10:25	1.72	11.4	52.5	6.93	1,529.4	1.44	24.44	97.80

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

March 15, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24010117

Dear Shelly Hennessy:

Order No.: 24030039

Summit Environmental Technologies, Inc. received 15 sample(s) on 2/29/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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Website: http://www.settek.com

Case Narrative

WO#: **24030039**
Date: **3/15/2024**

CLIENT: TEKLAB Inc,
Project: 24010117

WorkOrder Narrative:
24030039: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

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Qualifiers and Acronyms

WO#: **24030039**
Date: **3/15/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24030039**

15-Mar-24

CLIENT: TEKLAB Inc,
Project: 24010117

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24030039-001	24010117-001		2/21/2024 11:38:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-002	24010117-002		2/21/2024 1:41:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-003	24010117-003		2/22/2024 11:24:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-004	24010117-004		2/22/2024 12:03:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-005	24010117-005		2/23/2024 11:21:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-006	24010117-006		2/22/2024 1:44:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-007	24010117-007		2/22/2024 10:40:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-008	24010117-008		2/26/2024 2:20:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-009	24010117-009		2/21/2024 12:24:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-010	24010117-010		2/26/2024 1:50:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-011	24010117-011		2/21/2024 2:36:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-012	24010117-012		2/26/2024 11:08:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-013	24010117-013		2/26/2024 12:00:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-014	24010117-014		2/26/2024 12:34:00 PM	2/29/2024 12:25:00 PM	Non-Potable Water
24030039-015	24010117-015		2/23/2024 10:25:00 AM	2/29/2024 12:25:00 PM	Non-Potable Water

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DATES REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24030039-001A	24010117-001	2/21/2024 11:38:00 AM	Non-Potable Water	Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-002A	24010117-002	2/21/2024 1:41:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-003A	24010117-003	2/22/2024 11:24:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-004A	24010117-004	2/22/2024 12:03:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-005A	24010117-005	2/23/2024 11:21:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-006A	24010117-006	2/22/2024 1:44:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-007A	24010117-007	2/22/2024 10:40:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-008A	24010117-008	2/26/2024 2:20:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM

Original

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DATES REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24030039-008A	24010117-008	2/26/2024 2:20:00 PM	Non-Potable Water	Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-009A	24010117-009	2/21/2024 12:24:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-010A	24010117-010	2/26/2024 1:50:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-011A	24010117-011	2/21/2024 2:36:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-012A	24010117-012	2/26/2024 11:08:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-013A	24010117-013	2/26/2024 12:00:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-014A	24010117-014	2/26/2024 12:34:00 PM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM
24030039-015A	24010117-015	2/23/2024 10:25:00 AM		Combined Radium (EPA903+904)			3/15/2024 7:25:39 AM
				Radium-226 (EPA 903.0)		3/5/2024 11:12:34 AM	3/11/2024 10:03:00 AM
				Radium-228 (EPA 904.0)		3/5/2024 11:12:34 AM	3/8/2024 2:17:00 PM

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/21/2024 11:38:00 AM

Project: 24010117

Lab ID: 24030039-001
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.340	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.260	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/21/2024 1:41:00 PM
Project: 24010117
Lab ID: 24030039-002
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.340	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/22/2024 11:24:00 AM
Project: 24010117
Lab ID: 24030039-003
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.410	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	3/11/2024 10:03:00 AM
Yield	0.980					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/22/2024 12:03:00 PM

Project: 24010117

Lab ID: 24030039-004
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.270	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/23/2024 11:21:00 AM
Project: 24010117
Lab ID: 24030039-005
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.470	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.360	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/22/2024 1:44:00 PM
Project: 24010117
Lab ID: 24030039-006
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.390	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0200	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.370	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/22/2024 10:40:00 AM
Project: 24010117
Lab ID: 24030039-007
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.270	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/26/2024 2:20:00 PM

Project: 24010117

Lab ID: 24030039-008
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.530	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.440	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/21/2024 12:24:00 PM

Project: 24010117

Lab ID: 24030039-009
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.540	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.120	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.420	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/26/2024 1:50:00 PM

Project: 24010117

Lab ID: 24030039-010
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.330	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/21/2024 2:36:00 PM

Project: 24010117

Lab ID: 24030039-011
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.550	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.440	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/26/2024 11:08:00 AM
Project: 24010117
Lab ID: 24030039-012
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.370	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0300	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.340	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/26/2024 12:00:00 PM

Project: 24010117

Lab ID: 24030039-013
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-013

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/26/2024 12:34:00 PM

Project: 24010117

Lab ID: 24030039-014
Matrix: NON-POTABLE WATER

Client Sample ID: 24010117-014

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.360	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.280	1	3/8/2024 2:17:00 PM
Yield	0.970					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24030039**

Date Reported: **3/15/2024**

CLIENT: TEKLAB Inc,
Collection Date: 2/23/2024 10:25:00 AM
Project: 24010117
Lab ID: 24030039-015
Matrix: NON-POTABLE WATER
Client Sample ID: 24010117-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM (EPA903+904)				**CALCULATION**			Analyst: **CXS**
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.420	1	3/15/2024 7:25:39 AM
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	3/11/2024 10:03:00 AM
Yield	1.00					1	3/11/2024 10:03:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/8/2024 2:17:00 PM
Yield	1.00					1	3/8/2024 2:17:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **MB-73522** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **PBW** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-73522** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **LCSW** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.32	1.00	5.000	0	66.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-73522** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **LCSS02** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923943**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.49	1.00	5.000	0	69.8	50	130	3.320	4.99	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **RLC-73522** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.01	1.00	1.000	0	101	50	150				
Yield	1.00			0	0						

Sample ID: **RLCD-73522** SampType: **RLC** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923946**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	70.0	50	150				
Yield	1.00			0	0						

Sample ID: **24030092-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923950**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24030039**
15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **24030092-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181655**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E904.0** **E903-904** Analysis Date: **3/8/2024** SeqNo: **4923952**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.41	1.00		0	0			2.380	1.25	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **MB-73522** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **PBW** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-73522** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **LCSW** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924196**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.34	1.00	5.000	0	107	70	130				

Sample ID: **LCSD-73522** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **LCSS02** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.64	1.00	5.000	0	92.8	70	130	5.340	14.0	20	

Sample ID: **RLC-73522** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24030039**

15-Mar-24

Client: TEKLAB Inc,
Project: 24010117 **BatchID:** **73522**

Sample ID: **RLC-73522** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	91.0	50	150				

Sample ID: **RLCD-73522** SampType: **RLC** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	78.0	50	150				

Sample ID: **24030092-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2024** RunNo: **181663**
Client ID: **BatchQC** Batch ID: **73522** TestNo: **E903.0** **E903-904** Analysis Date: **3/11/2024** SeqNo: **4924202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg ___ of ___ 2403 0039

TEKLAB, INC. Chain of Custody

SN 24021

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

11.0-0.2=10.8°C, 11.2-0.2=11.0°C
13.5-0.2=13.3°C

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Sampler | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) on your standard turnaround time.
Receipt summary requested.

Project# 24010117

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: 20 business days or less | Billing/PO: 35852
Phone: 618 344 1004 ext 36

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium		cpm				pH			
	24010117-001	2/21/24 1138	HNO3	Groundwater	✓	✓	✓	☐	~~15~~	18	☐	☐	1	☐	☐	☐
	24010117-002	2/21/24 1341	HNO3	Groundwater	✓	✓	✓	☐	~~18~~	15	☐	☐	1	☐	☐	☐
	24010117-003	2/22/24 1124	HNO3	Groundwater	✓	✓	✓	☐	18	☐	☐	☐	1	☐	☐	☐
	24010117-004	2/22/24 1203	HNO3	Groundwater	✓	✓	✓	☐	18	34	☐	☐	1	☐	☐	☐
	24010117-005	2/23/24 1121	HNO3	Groundwater	✓	✓	✓	☐	~~3~~	18	☐	☐	1	☐	☐	☐
	24010117-006	2/22/24 1344	HNO3	Groundwater	✓	✓	✓	☐	18	3	☐	☐	1	☐	☐	☐
	24010117-007	2/22/24 1040	HNO3	Groundwater	✓	✓	✓	☐	15	☐	☐	☐	1	☐	☐	☐
	24010117-008	2/26/24 1420	HNO3	Groundwater	✓	✓	✓	☐	15	☐	☐	☐	1	☐	☐	☐
	24010117-009	2/21/24 1224	HNO3	Groundwater	✓	✓	✓	☐	~~38~~	15	☐	☐	1	☐	☐	☐
	24010117-010	2/26/24 1350	HNO3	Groundwater	✓	✓	✓	☐	~~23~~	38	☐	☐	1	☐	☐	☐
	24010117-011	2/21/24 1436	HNO3	Groundwater	✓	✓	✓	☐	~~23~~	☐	☐	☐	1	☐	☐	☐

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	2/27/24 1700	[signature]	2/29/24, 1225

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab Sampler | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium (226, 228, and combined) on your standard turnaround time.
Receipt summary requested.

Project# 24010117

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: 20 business days or less | Billing/PO: 35852
Phone: 618 344 1004 ext 36

State of Origin: IL

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226	Radium 228	Combined Radium										
									pCi/L				pH				
	24010117-012	2/26/24 1108	HNO3	Groundwater	✔	✔	✔		3				1				
	24010117-013	2/26/24 1200	HNO3	Groundwater	✔	✔	✔		23				1				
	24010117-014	2/26/24 1234	HNO3	Groundwater	✔	✔	✔		31				1				
	24010117-015	2/23/24 1025	HNO3	Groundwater	✔	✔	✔		27				1				
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
Damon Riddle	2/27/24 1200		

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24030039 RcptNo: 1

Logged by:	Tegan A. Richards	2/29/2024 12:25:00 PM	Tegan Richards
Completed By:	Salwa A. Najjar	3/1/2024 1:22:39 PM	Salwa Najjar
Reviewed By:	Jennifer Woolf	3/1/2024 2:15:22 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	10.8	Good	Not Present			

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24030039 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	11.0	Good	Not Present			
3	13.3	Good	Not Present			

APPENDIX C-2:

Second Quarter 2024
Laboratory Analytical Report and Field Notes

May 02, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24042136

Dear Eric Staley:

TEKLAB, INC received 2 samples on 4/25/2024 1:40:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24042136
Report Date: 02-May-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24042136

Client Project: Ash Pond Monitoring Wells **Report Date:** 02-May-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24042136

Client Project: Ash Pond Monitoring Wells
Report Date: 02-May-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24042136
Report Date: 02-May-24

Cooler Receipt Temp: 16.4 °C

An employee of Teklab, Inc. collected the sample(s).

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24042136
Client Project: Ash Pond Monitoring Wells
Report Date: 02-May-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
Work Order: 24042136
Client Project: Ash Pond Monitoring Wells
Report Date: 02-May-24
Lab ID: 24042136-001
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 04/25/2024 10:49

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Arsenic	NELAP	0.0010		**0.0198**	mg/L	5	05/02/2024 4:34	222154

Client: City Water, Light & Power
Work Order: 24042136
Client Project: Ash Pond Monitoring Wells
Report Date: 02-May-24
Lab ID: 24042136-002
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 04/25/2024 11:33

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/02/2024 4:39	222154

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24042136
Report Date: 02-May-24

Carrier: Tracy Carroll

Received By: NR

Completed by: Paul Schultz
On: 26-Apr-24

Reviewed by: Ellie Hopkins
On: 26-Apr-24

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	16.4
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #90719. WO - pschultz - 4/26/2024 8:42:33 AM

CHAIN OF CUSTODY pg. ____ of ____ Work order # 2404236

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	City Water, Light & Power		
Address:	3100 Stevenson Drive		
City / State / Zip	Springfield, IL 62712		
Contact:	Eric Staley	**Phone:**	(217) 757-8610
E-Mail:	eric.staley@cwlp.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE 1.4 °C LTG# 9

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: PW 90719 WD 4/25/24

Client Comments
As=0.001 mg/L (ICPMS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☐ No
Are these samples known to be hazardous? If yes, include details of the hazard. ☐ Yes ☐ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☐ No

Project Name/Number	Sample Collector's Name
Ash Pond Monitoring Wells	Tracy Carroll

Results Requested
☐ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers HNO3	MATRIX Groundwater	INDICATE ANALYSIS REQUESTED As (T)
2404236-001	AP-4	4/25/24 1049	1	X	X
-002	AP-5	4/25/24 1133	1	X	X

Relinquished By	Date/Time	Received By	Date/Time
[signature]	4/25/24 1340	[signature]	4/25/24 1340

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 88767

June 17, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24060964

Dear Eric Staley:

TEKLAB, INC received 2 samples on 6/12/2024 11:47:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24060964
Client Project: Ash Pond Monitoring Wells
Report Date: 17-Jun-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24060964

Client Project: Ash Pond Monitoring Wells **Report Date:** 17-Jun-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24060964

Client Project: Ash Pond Monitoring Wells
Report Date: 17-Jun-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24060964
Report Date: 17-Jun-24

Cooler Receipt Temp: 16.5 °C

An employee of Teklab, Inc. collected the sample(s).

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24060964
Client Project: Ash Pond Monitoring Wells
Report Date: 17-Jun-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24060964
Client Project: Ash Pond Monitoring Wells
Report Date: 17-Jun-24
Lab ID: 24060964-001
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 06/12/2024 9:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Arsenic	NELAP	0.0010		**0.0218**	mg/L	5	06/13/2024 14:55	224317

Client: City Water, Light & Power
Work Order: 24060964
Client Project: Ash Pond Monitoring Wells
Report Date: 17-Jun-24
Lab ID: 24060964-002
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 06/12/2024 10:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	06/13/2024 15:00	224317

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24060964
Report Date: 17-Jun-24

Carrier: Payton Yoch
Received By: NR

Completed by: Whitney Olinger
On: 12-Jun-24

Reviewed by: Ellie Hopkins
On: 12-Jun-24

Pages to follow: Chain of custody 1 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	16.5
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.					
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑		
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑		
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐		
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑		

Any No responses must be detailed below or on the COC.

3 day rush TAT per Eric Staley via email. - SAH/ERH 6/12/24

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 24060964

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	City Water, Light & Power		
Address:	3100 Stevenson Drive		
City / State / Zip	Springfield, IL 62712		
Contact:	Eric Staley	**Phone:**	(217) 757-8610
E-Mail:	eric.staley@cwlp.com	**Fax:**	

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 16.5 °C LTG# 7

Preserved in: [X] LAB [ ] FIELD

FOR LAB USE ONLY

Lab Notes: Added HNO_3 (9777) to AP-4 6/12 9665

Client Comments TAT per Eric Staley via email. SAH/ERH 6/12/24

As=0.001 mg/L (ICPMS)

Are these samples known to be involved in litigation? If yes, a surcharge will apply [ ] Yes [X] No

Are these samples known to be hazardous? If yes, include details of the hazard. [ ] Yes [X] No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. [X] Yes [ ] No

Project Name/Number	Sample Collector's Name
Ash Pond Monitoring Wells	Justin Culp

Results Requested

[ ] Standard [ ] 1-2 Day (100% Surcharge)

[ ] Other ____ [X] 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: HNO3	MATRIX: Groundwater	INDICATE ANALYSIS REQUESTED: As (T)
24060964001	AP-4	6-12-24 / 0956	1	X	X
-002	AP-5	6-12-24 / 1021	1	X	X

3 DAY

Relinquished By	Date/Time	Received By	Date/Time
[signature]	6-12-24 / 1147	[signature]	6/12/24 1147

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 90257

July 15, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24050003

Dear Eric Staley:

TEKLAB, INC received 20 samples on 5/14/2024 2:39:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	27
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24050003

Client Project: Ash Pond Monitoring Wells **Report Date:** 15-Jul-24

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TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power

Work Order: 24050003

Client Project: Ash Pond Monitoring Wells

Report Date: 15-Jul-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
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- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
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- ND - Not Detected at the Reporting Limit
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- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
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Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24050003
Report Date: 15-Jul-24

Cooler Receipt Temp: 12.1 °C

This report was revised on July 15, 2024 per Eric Staley's request to report the reanalysis of Cobalt for AP-11. Please replace report dated June 18, 2024 with this report. SAH 7/15/24

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power **Work Order:** 24050003

Client Project: Ash Pond Monitoring Wells **Report Date:** 15-Jul-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 05/09/2024 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	05/09/2024 12:12	R347528
Depth to water	*	-5.00		**5.17**	ft	1	05/09/2024 12:12	R347528
Depth to water from measuring point	*	0		**7.87**	ft	1	05/09/2024 12:12	R347528
Elevation of groundwater surface	*	0		**531.63**	ft	1	05/09/2024 12:12	R347528
Measuring Point Elevation	*	0		**539.50**	ft	1	05/09/2024 12:12	R347528
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	05/09/2024 12:12	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	05/09/2024 12:12	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.1**	°F	1	05/09/2024 12:12	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	05/09/2024 12:12	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**644**	µmhos/cm @25C	1	05/09/2024 12:12	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**345**	mg/L	2.5	05/15/2024 12:24	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/21/2024 0:32	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.40**	mg/L	1	05/20/2024 13:43	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**28**	mg/L	1	05/21/2024 0:32	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.143**	mg/L	1	05/15/2024 13:36	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:36	222813
Boron	NELAP	0.0200		**0.154**	mg/L	1	05/15/2024 13:36	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:36	222813
Calcium	NELAP	0.100		**65.6**	mg/L	1	05/15/2024 13:36	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:36	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:21	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:36	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:35	222813
Arsenic	NELAP	0.0010		**0.188**	mg/L	5	05/14/2024 16:35	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:35	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:05	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 9:40	223373
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 05/13/2024 11:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	05/13/2024 11:01	R347528
Depth to water	*	-5.00		**6.61**	ft	1	05/13/2024 11:01	R347528
Depth to water from measuring point	*	0		**8.88**	ft	1	05/13/2024 11:01	R347528
Elevation of groundwater surface	*	0		**526.49**	ft	1	05/13/2024 11:01	R347528
Measuring Point Elevation	*	0		**535.37**	ft	1	05/13/2024 11:01	R347528
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	05/13/2024 11:01	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.7**	NTU	1	05/13/2024 11:01	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	05/13/2024 11:01	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.31**		1	05/13/2024 11:01	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1760**	µmhos/cm @25C	1	05/13/2024 11:01	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1490**	mg/L	2.5	05/17/2024 9:50	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**805**	mg/L	20	05/21/2024 14:15	R347701
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	05/20/2024 13:45	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**29**	mg/L	2	05/21/2024 0:35	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.300**	mg/L	1	05/23/2024 13:18	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:18	223235
Boron	NELAP	0.0400		**22.7**	mg/L	2	05/29/2024 13:26	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:18	223235
Calcium	NELAP	0.100		**248**	mg/L	1	05/23/2024 13:18	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:18	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:18	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:18	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:42	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:18	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:33	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:33	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:19	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 05/13/2024 11:53

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	05/13/2024 11:53	R347528
Depth to water	*	-5.00		**4.55**	ft	1	05/13/2024 11:53	R347528
Depth to water from measuring point	*	0		**7.05**	ft	1	05/13/2024 11:53	R347528
Elevation of groundwater surface	*	0		**529.05**	ft	1	05/13/2024 11:53	R347528
Measuring Point Elevation	*	0		**536.10**	ft	1	05/13/2024 11:53	R347528
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	05/13/2024 11:53	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.9**	NTU	1	05/13/2024 11:53	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	05/13/2024 11:53	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.21**		1	05/13/2024 11:53	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1290**	µmhos/cm @25C	1	05/13/2024 11:53	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1040**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**411**	mg/L	20	05/21/2024 0:48	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.23**	mg/L	1	05/20/2024 13:46	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**36**	mg/L	2	05/21/2024 0:43	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0607**	mg/L	1	05/22/2024 13:30	223266
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/22/2024 13:30	223266
Boron	NELAP	0.0200		**3.43**	mg/L	1	05/29/2024 12:39	223266
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/22/2024 13:30	223266
Calcium	NELAP	0.100		**194**	mg/L	1	05/22/2024 13:30	223266
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/22/2024 13:30	223266
Cobalt	NELAP	0.0050		**0.0102**	mg/L	1	05/22/2024 13:30	223266
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/22/2024 13:30	223266
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:36	223266
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/22/2024 13:30	223266
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0021**	mg/L	5	05/22/2024 19:34	223266
Arsenic	NELAP	0.0010		**0.0020**	mg/L	5	05/22/2024 19:34	223266
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/22/2024 19:34	223266
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/22/2024 19:34	223266
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:22	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 05/13/2024 12:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.75**	ft	1	05/13/2024 12:43	R347528
Depth to water	*	-5.00		**6.46**	ft	1	05/13/2024 12:43	R347528
Depth to water from measuring point	*	0		**9.11**	ft	1	05/13/2024 12:43	R347528
Elevation of groundwater surface	*	0		**526.44**	ft	1	05/13/2024 12:43	R347528
Measuring Point Elevation	*	0		**535.55**	ft	1	05/13/2024 12:43	R347528
Measuring Point Height Above Land Surface	*	0		**2.65**	ft	1	05/13/2024 12:43	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.7**	NTU	1	05/13/2024 12:43	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.9**	°F	1	05/13/2024 12:43	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.36**		1	05/13/2024 12:43	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1220**	µmhos/cm @25C	1	05/13/2024 12:43	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1040**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**493**	mg/L	20	05/21/2024 0:56	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	05/20/2024 13:48	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**53**	mg/L	2	05/21/2024 0:51	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0767**	mg/L	1	05/23/2024 13:19	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:19	223235
Boron	NELAP	0.0200		**14.5**	mg/L	1	05/29/2024 13:26	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:19	223235
Calcium	NELAP	0.100		**176**	mg/L	1	05/23/2024 13:19	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Cobalt	NELAP	0.0050		**0.0065**	mg/L	1	05/23/2024 13:19	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:19	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:43	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:19	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:39	223235
Arsenic	NELAP	0.0010		**0.0021**	mg/L	5	05/23/2024 22:39	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:39	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:39	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:24	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 05/13/2024 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**492.46**	ft	1	05/13/2024 13:25	R347528
Depth to water	*	-5.00		**5.54**	ft	1	05/13/2024 13:25	R347528
Depth to water from measuring point	*	0		**8.68**	ft	1	05/13/2024 13:25	R347528
Elevation of groundwater surface	*	0		**546.92**	ft	1	05/13/2024 13:25	R347528
Measuring Point Elevation	*	0		**555.60**	ft	1	05/13/2024 13:25	R347528
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	05/13/2024 13:25	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	05/13/2024 13:25	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.0**	°F	1	05/13/2024 13:25	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.83**		1	05/13/2024 13:25	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**588**	µmhos/cm @25C	1	05/13/2024 13:25	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**500**	mg/L	2.5	05/17/2024 10:40	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**< 10**	mg/L	1	05/21/2024 1:02	R347580
Matrix spike did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.13**	mg/L	1	05/20/2024 13:50	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**13**	mg/L	1	05/21/2024 1:02	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.407**	mg/L	1	05/23/2024 13:19	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:19	223235
Boron	NELAP	0.0200		**0.0834**	mg/L	1	05/29/2024 13:27	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:19	223235
Calcium	NELAP	0.100		**123**	mg/L	1	05/23/2024 13:19	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:19	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:19	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:45	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:19	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:45	223235
Arsenic	NELAP	0.0010		**0.0229**	mg/L	5	05/23/2024 22:45	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:45	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:45	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 16:26	223231
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 05/14/2024 9:54

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	05/14/2024 9:54	R347528
Depth to water	*	-5.00		**11.30**	ft	1	05/14/2024 9:54	R347528
Depth to water from measuring point	*	0		**13.60**	ft	1	05/14/2024 9:54	R347528
Elevation of groundwater surface	*	0		**570.30**	ft	1	05/14/2024 9:54	R347528
Measuring Point Elevation	*	0		**583.90**	ft	1	05/14/2024 9:54	R347528
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	05/14/2024 9:54	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.2**	NTU	1	05/14/2024 9:54	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.5**	°F	1	05/14/2024 9:54	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.99**		1	05/14/2024 9:54	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**468**	µmhos/cm @25C	1	05/14/2024 9:54	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**405**	mg/L	2.5	05/17/2024 10:41	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**43**	mg/L	1	05/21/2024 1:39	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.29**	mg/L	1	05/20/2024 13:52	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	05/21/2024 1:39	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0510**	mg/L	1	05/23/2024 13:35	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:35	223235
Boron	NELAP	0.0200		**0.0269**	mg/L	1	05/29/2024 13:28	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:35	223235
Calcium	NELAP	0.100		**94.1**	mg/L	1	05/23/2024 13:35	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:35	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:35	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:35	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:47	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:35	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:51	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:51	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:07	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 05/10/2024 10:13

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	05/10/2024 10:13	R347528
Depth to water	*	-5.00		**4.15**	ft	1	05/10/2024 10:13	R347528
Depth to water from measuring point	*	0		**6.57**	ft	1	05/10/2024 10:13	R347528
Elevation of groundwater surface	*	0		**531.25**	ft	1	05/10/2024 10:13	R347528
Measuring Point Elevation	*	0		**537.82**	ft	1	05/10/2024 10:13	R347528
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	05/10/2024 10:13	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**19**	NTU	1	05/10/2024 10:13	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	05/10/2024 10:13	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.27**		1	05/10/2024 10:13	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**662**	µmhos/cm @25C	1	05/10/2024 10:13	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**390**	mg/L	2.5	05/15/2024 12:24	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/21/2024 1:46	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.48**	mg/L	1	05/20/2024 13:54	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**33**	mg/L	1	05/21/2024 1:47	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.147**	mg/L	1	05/15/2024 13:36	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:36	222813
Boron	NELAP	0.0200		**0.238**	mg/L	1	05/15/2024 13:36	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:36	222813
Calcium	NELAP	0.100		**65.8**	mg/L	1	05/15/2024 13:36	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:36	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:36	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:22	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:36	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:40	222813
Arsenic	NELAP	0.0010		**0.0121**	mg/L	5	05/14/2024 16:40	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:40	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:10	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:38	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 05/14/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	05/14/2024 11:21	R347528
Depth to water	*	-5.00		**7.21**	ft	1	05/14/2024 11:21	R347528
Depth to water from measuring point	*	0		**9.87**	ft	1	05/14/2024 11:21	R347528
Elevation of groundwater surface	*	0		**529.15**	ft	1	05/14/2024 11:21	R347528
Measuring Point Elevation	*	0		**539.02**	ft	1	05/14/2024 11:21	R347528
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	05/14/2024 11:21	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	05/14/2024 11:21	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.5**	°F	1	05/14/2024 11:21	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.15**		1	05/14/2024 11:21	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**441**	µmhos/cm @25C	1	05/14/2024 11:21	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**340**	mg/L	2.5	05/17/2024 10:41	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	05/21/2024 1:49	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.38**	mg/L	1	05/20/2024 14:04	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**43**	mg/L	1	05/21/2024 1:50	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0915**	mg/L	1	05/23/2024 13:36	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:36	223235
Boron	NELAP	0.0200		**0.0978**	mg/L	1	05/24/2024 14:23	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:36	223235
Calcium	NELAP	0.100		**52.3**	mg/L	1	05/23/2024 13:36	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:36	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:36	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:36	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 10:48	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:36	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:58	223235
Arsenic	NELAP	0.0010		**0.0395**	mg/L	5	05/23/2024 22:58	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 22:58	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 22:58	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:09	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 05/10/2024 10:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	05/10/2024 10:35	R347528
Depth to water	*	-5.00		**0.84**	ft	1	05/10/2024 10:35	R347528
Depth to water from measuring point	*	0		**3.74**	ft	1	05/10/2024 10:35	R347528
Elevation of groundwater surface	*	0		**533.46**	ft	1	05/10/2024 10:35	R347528
Measuring Point Elevation	*	0		**537.20**	ft	1	05/10/2024 10:35	R347528
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	05/10/2024 10:35	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	05/10/2024 10:35	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.3**	°F	1	05/10/2024 10:35	R347528
SW-846 9040B								
pH, Field	*	1.00		**7.03**		1	05/10/2024 10:35	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**917**	µmhos/cm @25C	1	05/10/2024 10:35	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**590**	mg/L	2.5	05/15/2024 15:57	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	SR	**< 10**	mg/L	1	05/21/2024 1:59	R347580
Matrix spike and RPD did not recover within control limits due to matrix interference.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	05/20/2024 14:14	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**26**	mg/L	2	05/21/2024 2:27	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.373**	mg/L	1	05/15/2024 13:37	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:37	222813
Boron	NELAP	0.0200		**0.0877**	mg/L	1	05/15/2024 13:37	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:37	222813
Calcium	NELAP	0.100		**99.4**	mg/L	1	05/15/2024 13:37	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:37	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:37	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:37	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:24	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:37	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:46	222813
Arsenic	NELAP	0.0010		**0.0461**	mg/L	5	05/14/2024 16:46	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:46	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:15	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:41	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 05/14/2024 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**501.80**	ft	1	05/14/2024 11:45	R347528
Depth to water	*	-5.00		**8.77**	ft	1	05/14/2024 11:45	R347528
Depth to water from measuring point	*	0		**11.87**	ft	1	05/14/2024 11:45	R347528
Elevation of groundwater surface	*	0		**528.43**	ft	1	05/14/2024 11:45	R347528
Measuring Point Elevation	*	0		**540.30**	ft	1	05/14/2024 11:45	R347528
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	05/14/2024 11:45	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**40**	NTU	1	05/14/2024 11:45	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.2**	°F	1	05/14/2024 11:45	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.75**		1	05/14/2024 11:45	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**659**	µmhos/cm @25C	1	05/14/2024 11:45	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**535**	mg/L	2.5	05/17/2024 10:41	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**22**	mg/L	1	05/21/2024 2:37	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	05/20/2024 14:16	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	05/21/2024 2:38	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.360**	mg/L	1	05/23/2024 13:37	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:37	223235
Boron	NELAP	0.0200		**0.0988**	mg/L	1	05/29/2024 14:02	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:37	223235
Calcium	NELAP	0.100		**101**	mg/L	1	05/23/2024 13:37	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:37	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:37	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:37	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:04	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:37	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:59	223235
Arsenic	NELAP	0.0010		**0.0024**	mg/L	5	05/23/2024 23:59	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:59	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:59	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:11	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 05/13/2024 14:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	05/13/2024 14:08	R347528
Depth to water	*	-5.00		**-0.56**	ft	1	05/13/2024 14:08	R347528
Depth to water from measuring point	*	0		**2.54**	ft	1	05/13/2024 14:08	R347528
Elevation of groundwater surface	*	0		**534.96**	ft	1	05/13/2024 14:08	R347528
Measuring Point Elevation	*	0		**537.50**	ft	1	05/13/2024 14:08	R347528
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	05/13/2024 14:08	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	05/13/2024 14:08	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.4**	°F	1	05/13/2024 14:08	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	05/13/2024 14:08	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1140**	µmhos/cm @25C	1	05/13/2024 14:08	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**720**	mg/L	2.5	05/17/2024 11:06	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**100**	mg/L	2	05/23/2024 13:42	R347806
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	05/20/2024 14:18	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	05/21/2024 2:40	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.605**	mg/L	1	05/23/2024 13:39	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:39	223235
Boron	NELAP	0.0200		**3.92**	mg/L	1	05/29/2024 13:46	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:39	223235
Calcium	NELAP	0.100		**141**	mg/L	1	05/23/2024 13:39	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:39	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:39	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:39	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:09	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:39	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0014**	mg/L	5	05/28/2024 8:24	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:29	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:29	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:29	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:14	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 05/09/2024 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	05/09/2024 14:28	R347528
Depth to water	*	-5.00		**6.95**	ft	1	05/09/2024 14:28	R347528
Depth to water from measuring point	*	0		**9.75**	ft	1	05/09/2024 14:28	R347528
Elevation of groundwater surface	*	0		**528.35**	ft	1	05/09/2024 14:28	R347528
Measuring Point Elevation	*	0		**538.14**	ft	1	05/09/2024 14:28	R347528
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	05/09/2024 14:28	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**60**	NTU	1	05/09/2024 14:28	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.8**	°F	1	05/09/2024 14:28	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.75**		1	05/09/2024 14:28	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1350**	µmhos/cm @25C	1	05/09/2024 14:28	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1780**	mg/L	1	05/15/2024 15:57	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**134**	mg/L	5	05/21/2024 2:48	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	05/20/2024 14:20	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	200		**429**	mg/L	50	05/22/2024 5:53	R347713
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.238**	mg/L	1	05/15/2024 13:38	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:38	222813
Boron	NELAP	0.0200		**0.0555**	mg/L	1	05/15/2024 13:38	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:38	222813
Calcium	NELAP	0.100		**217**	mg/L	1	05/15/2024 13:38	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:38	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/20/2024 11:25	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:38	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:25	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:38	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:51	222813
Arsenic	NELAP	0.0010		**0.0037**	mg/L	5	05/14/2024 16:51	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 16:51	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:19	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:43	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 05/09/2024 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	05/09/2024 13:14	R347528
Depth to water	*	-5.00		**9.34**	ft	1	05/09/2024 13:14	R347528
Depth to water from measuring point	*	0		**12.24**	ft	1	05/09/2024 13:14	R347528
Elevation of groundwater surface	*	0		**528.46**	ft	1	05/09/2024 13:14	R347528
Measuring Point Elevation	*	0		**540.70**	ft	1	05/09/2024 13:14	R347528
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	05/09/2024 13:14	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**89**	NTU	1	05/09/2024 13:14	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.5**	°F	1	05/09/2024 13:14	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.52**		1	05/09/2024 13:14	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1680**	µmhos/cm @25C	1	05/09/2024 13:14	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1620**	mg/L	2.5	05/15/2024 17:12	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**499**	mg/L	20	05/21/2024 3:09	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.16**	mg/L	1	05/20/2024 14:21	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	40		**121**	mg/L	10	05/21/2024 2:51	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0707**	mg/L	1	05/15/2024 13:39	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:39	222813
Boron	NELAP	0.0200		**< 0.0200**	mg/L	1	05/15/2024 13:39	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:39	222813
Calcium	NELAP	0.100		**240**	mg/L	1	05/15/2024 13:39	222813
Chromium	NELAP	0.0050		**0.0053**	mg/L	1	05/15/2024 13:39	222813
Cobalt	NELAP	0.0050		**0.0054**	mg/L	1	05/15/2024 13:39	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:39	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 11:27	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:39	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0018**	mg/L	5	05/14/2024 18:26	222813
Arsenic	NELAP	0.0010		**0.0038**	mg/L	5	05/14/2024 18:26	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 18:26	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 18:00	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:45	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 05/09/2024 13:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	05/09/2024 13:50	R347528
Depth to water	*	-5.00		**7.42**	ft	1	05/09/2024 13:50	R347528
Depth to water from measuring point	*	0		**10.82**	ft	1	05/09/2024 13:50	R347528
Elevation of groundwater surface	*	0		**531.18**	ft	1	05/09/2024 13:50	R347528
Measuring Point Elevation	*	0		**542.00**	ft	1	05/09/2024 13:50	R347528
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	05/09/2024 13:50	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.6**	NTU	1	05/09/2024 13:50	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.4**	°F	1	05/09/2024 13:50	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	05/09/2024 13:50	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**804**	µmhos/cm @25C	1	05/09/2024 13:50	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**910**	mg/L	2.5	05/15/2024 17:13	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**140**	mg/L	5	05/21/2024 3:17	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	05/20/2024 14:24	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**26**	mg/L	1	05/21/2024 3:12	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.131**	mg/L	1	05/15/2024 13:39	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:39	222813
Boron	NELAP	0.0200		**0.0343**	mg/L	1	05/15/2024 13:39	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:39	222813
Calcium	NELAP	0.100		**109**	mg/L	1	05/15/2024 13:39	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:39	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:39	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:39	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 12:02	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:39	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 18:31	222813
Arsenic	NELAP	0.0010		**0.0032**	mg/L	5	05/14/2024 18:31	222813
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 18:31	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 18:05	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:47	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 05/14/2024 10:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	05/14/2024 10:38	R347528
Depth to water	*	-5.00		**-1.25**	ft	1	05/14/2024 10:38	R347528
Depth to water from measuring point	*	0		**1.55**	ft	1	05/14/2024 10:38	R347528
Elevation of groundwater surface	*	0		**538.05**	ft	1	05/14/2024 10:38	R347528
Measuring Point Elevation	*	0		**539.60**	ft	1	05/14/2024 10:38	R347528
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	05/14/2024 10:38	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.9**	NTU	1	05/14/2024 10:38	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.4**	°F	1	05/14/2024 10:38	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	05/14/2024 10:38	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1120**	µmhos/cm @25C	1	05/14/2024 10:38	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1480**	mg/L	2.5	05/17/2024 11:06	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**740**	mg/L	20	05/21/2024 3:25	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	05/20/2024 14:25	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**83**	mg/L	5	05/21/2024 3:20	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0329**	mg/L	1	05/23/2024 13:40	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:40	223235
Boron	NELAP	0.0400		**22.3**	mg/L	2	05/29/2024 13:46	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:40	223235
Calcium	NELAP	0.100		**245**	mg/L	1	05/23/2024 13:40	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:40	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:10	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:40	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:35	223235
Arsenic	NELAP	0.0010		**0.0019**	mg/L	5	05/23/2024 23:35	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:35	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:35	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:16	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-016
Client Sample ID: T-1
Matrix: GROUNDWATER
Collection Date: 05/09/2024 11:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	05/09/2024 11:10	R347528
Depth to water	*	-5.00		**9.45**	ft	1	05/09/2024 11:10	R347528
Depth to water from measuring point	*	0		**9.78**	ft	1	05/09/2024 11:10	R347528
Elevation of groundwater surface	*	0		**525.87**	ft	1	05/09/2024 11:10	R347528
Measuring Point Elevation	*	0		**535.65**	ft	1	05/09/2024 11:10	R347528
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	05/09/2024 11:10	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**2.3**	NTU	1	05/09/2024 11:10	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.4**	°F	1	05/09/2024 11:10	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	05/09/2024 11:10	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**780**	µmhos/cm @25C	1	05/09/2024 11:10	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**700**	mg/L	2.5	05/15/2024 17:13	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**36**	mg/L	1	05/21/2024 3:28	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	05/20/2024 14:27	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**49**	mg/L	1	05/21/2024 3:28	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0862**	mg/L	1	05/15/2024 13:49	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:49	222813
Boron	NELAP	0.0200		**0.227**	mg/L	1	05/15/2024 13:49	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:49	222813
Calcium	NELAP	0.100	S	**105**	mg/L	1	05/15/2024 13:49	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:49	222813
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:49	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:49	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 12:03	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:49	222813
Matrix spike control limits are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 20:01	222813
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 20:01	222813
Selenium	NELAP	0.0010		**0.0042**	mg/L	5	05/14/2024 20:01	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 17:24	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:50	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/03/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-017
Client Sample ID: T-2
Matrix: GROUNDWATER
Collection Date: 05/09/2024 11:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	05/09/2024 11:45	R347528
Depth to water	*	-5.00		**16.85**	ft	1	05/09/2024 11:45	R347528
Depth to water from measuring point	*	0		**19.25**	ft	1	05/09/2024 11:45	R347528
Elevation of groundwater surface	*	0		**530.37**	ft	1	05/09/2024 11:45	R347528
Measuring Point Elevation	*	0		**549.62**	ft	1	05/09/2024 11:45	R347528
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	05/09/2024 11:45	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.9**	NTU	1	05/09/2024 11:45	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	05/09/2024 11:45	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	05/09/2024 11:45	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1980**	µmhos/cm @25C	1	05/09/2024 11:45	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1060**	mg/L	2.5	05/15/2024 17:13	R347402
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		**135**	mg/L	10	05/21/2024 3:41	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.24**	mg/L	1	05/20/2024 14:37	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	40		**173**	mg/L	10	05/21/2024 3:41	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0771**	mg/L	1	05/15/2024 13:52	222813
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/15/2024 13:52	222813
Boron	NELAP	0.0200		**0.189**	mg/L	1	05/15/2024 13:52	222813
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/15/2024 13:52	222813
Calcium	NELAP	0.100		**150**	mg/L	1	05/15/2024 13:52	222813
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/15/2024 13:52	222813
Cobalt	NELAP	0.0050		**0.0075**	mg/L	1	05/16/2024 11:42	222813
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/15/2024 13:52	222813
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/20/2024 12:08	222813
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/15/2024 13:52	222813
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/14/2024 19:25	222813
Arsenic	NELAP	0.0010		**0.0023**	mg/L	5	05/14/2024 19:25	222813
Selenium	NELAP	0.0010		**0.0011**	mg/L	5	05/14/2024 19:25	222813
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/15/2024 18:10	222813
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/24/2024 19:52	223389
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/04/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/04/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-018
Client Sample ID: T-4
Matrix: GROUNDWATER
Collection Date: 05/14/2024 12:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	05/14/2024 12:36	R347528
Depth to water	*	-5.00		**10.34**	ft	1	05/14/2024 12:36	R347528
Depth to water from measuring point	*	0		**12.72**	ft	1	05/14/2024 12:36	R347528
Elevation of groundwater surface	*	0		**536.22**	ft	1	05/14/2024 12:36	R347528
Measuring Point Elevation	*	0		**548.94**	ft	1	05/14/2024 12:36	R347528
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	05/14/2024 12:36	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.1**	NTU	1	05/14/2024 12:36	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.0**	°F	1	05/14/2024 12:36	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.31**		1	05/14/2024 12:36	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**464**	µmhos/cm @25C	1	05/14/2024 12:36	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**255**	mg/L	2.5	05/17/2024 11:07	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**87**	mg/L	5	05/21/2024 14:26	R347701
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	05/20/2024 14:39	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	05/21/2024 3:44	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0382**	mg/L	1	05/23/2024 13:40	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:40	223235
Boron	NELAP	0.0200		**0.0304**	mg/L	1	05/29/2024 14:04	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:40	223235
Calcium	NELAP	0.100		**62.7**	mg/L	1	05/23/2024 13:40	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:40	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:40	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:12	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:40	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0013**	mg/L	5	05/23/2024 23:41	223235
Arsenic	NELAP	0.0010		**0.0013**	mg/L	5	05/23/2024 23:41	223235
Selenium	NELAP	0.0010		**0.0012**	mg/L	5	05/23/2024 23:41	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:41	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:18	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/04/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/04/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-019
Client Sample ID: T-5
Matrix: GROUNDWATER
Collection Date: 05/14/2024 11:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	05/14/2024 11:03	R347528
Depth to water	*	-5.00		**2.79**	ft	1	05/14/2024 11:03	R347528
Depth to water from measuring point	*	0		**5.30**	ft	1	05/14/2024 11:03	R347528
Elevation of groundwater surface	*	0		**535.36**	ft	1	05/14/2024 11:03	R347528
Measuring Point Elevation	*	0		**540.66**	ft	1	05/14/2024 11:03	R347528
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	05/14/2024 11:03	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.4**	NTU	1	05/14/2024 11:03	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.1**	°F	1	05/14/2024 11:03	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.62**		1	05/14/2024 11:03	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**490**	µmhos/cm @25C	1	05/14/2024 11:03	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**280**	mg/L	2.5	05/17/2024 11:07	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**27**	mg/L	1	05/21/2024 4:05	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.18**	mg/L	1	05/20/2024 14:40	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	05/21/2024 4:05	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0478**	mg/L	1	05/23/2024 13:41	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:41	223235
Boron	NELAP	0.0200		**0.0639**	mg/L	1	05/29/2024 14:04	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:41	223235
Calcium	NELAP	0.100		**65.4**	mg/L	1	05/23/2024 13:41	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:41	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:41	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:41	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:14	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:41	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:47	223235
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:47	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:47	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:47	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:25	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24
Lab ID: 24050003-020
Client Sample ID: T-6
Matrix: GROUNDWATER
Collection Date: 05/14/2024 11:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	05/14/2024 11:55	R347528
Depth to water	*	-5.00		**6.09**	ft	1	05/14/2024 11:55	R347528
Depth to water from measuring point	*	0		**8.45**	ft	1	05/14/2024 11:55	R347528
Elevation of groundwater surface	*	0		**529.87**	ft	1	05/14/2024 11:55	R347528
Measuring Point Elevation	*	0		**538.32**	ft	1	05/14/2024 11:55	R347528
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	05/14/2024 11:55	R347528
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**33**	NTU	1	05/14/2024 11:55	R347528
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.3**	°F	1	05/14/2024 11:55	R347528
SW-846 9040B								
pH, Field	*	1.00		**6.56**		1	05/14/2024 11:55	R347528
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**852**	µmhos/cm @25C	1	05/14/2024 11:55	R347528
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**475**	mg/L	2.5	05/17/2024 11:07	R347497
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	05/21/2024 4:13	R347580
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	05/20/2024 14:42	R347555
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**21**	mg/L	1	05/21/2024 4:13	R347642
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.314**	mg/L	1	05/23/2024 13:51	223235
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/23/2024 13:51	223235
Boron	NELAP	0.0200		**0.201**	mg/L	1	05/29/2024 14:05	223235
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/23/2024 13:51	223235
Calcium	NELAP	0.100		**91.3**	mg/L	1	05/23/2024 13:51	223235
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:51	223235
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/23/2024 13:51	223235
Lead	NELAP	0.0150		**< 0.0150**	mg/L	1	05/23/2024 13:51	223235
Lithium	NELAP	0.0500		**< 0.0500**	mg/L	1	05/30/2024 11:15	223235
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/23/2024 13:51	223235
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:53	223235
Arsenic	NELAP	0.0010		**0.0076**	mg/L	5	05/23/2024 23:53	223235
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/23/2024 23:53	223235
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/23/2024 23:53	223235
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/22/2024 19:27	223259
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779
Radium-228	*	0		**See Attached**	pci/L	1	06/07/2024 0:00	R348779

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24050003
Client Project: Ash Pond Monitoring Wells
Report Date: 15-Jul-24

Carrier: Daniel Crump
Received By: NR

Completed by: Paul Schultz
On: 10-May-24

Reviewed by: Ellie Hopkins
On: 14-May-24

Pages to follow: Chain of custody 6 Extra pages included 74

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 12.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice ☐
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

pH strip #96651. - pschultz - 5/10/2024 9:15:35 AM
Additional Nitric Acid (97737) was needed for sample T-2 upon arrival at the laboratory. - pschultz - 5/10/2024 9:15:38 AM

Samples were received on 5/10/2024 at 13:30 on ice [8.3C - LTG#7]. pH strip #96651. WO - pschultz - 5/10/2024 2:41:25 PM

Samples were received on 5/13/2024 at 16:10 on ice [19.3C - LTG#7]. pH strip #96651. NR - pschultz - 5/13/2024 4:45:02 PM
Additional Nitric Acid (97737) was needed for AR-10 upon arrival at the laboratory. NR - pschultz - 5/13/2024 4:45:05 PM

Samples were received on 5/14/2024 at 14:39 on ice [8.1C - LTG#7]. pH strip #96651. NR - pschultz - 5/14/2024 3:02:50 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.1 °C LT6#5
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: pH/Yes/S1
Added HNO_3 (92737) to T-2 5/5/10

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarrell

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3	5/9/24 1212	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-9 1635	Brian Reed	5/9/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.1 °C iL T&H5
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
TCarroll

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-012	AP-11	14:28 5/9/24 TE ~~SW Sizzley~~ TE	Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12	5/9/24 13:14	Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13	5/9/24 1350	Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14	TE SW 5/22/24	Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1	11:10 5/9/24 1428	Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2	5/9/24 1145	Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-9 1635	Brian Kroll	5/9/24 1635

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

1-T6-7

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 8.3 °C
Preserved in: [ ] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: pHV 916652 SID WD

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6	5-10-24 / 1013	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8	5-10-24 / 1035	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	5-10-24 / 1350		5/10/24 13:50

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 19.3 °C LTG-7
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: Added HNO_3 (97737) to AR-10 96651 MG 5/13

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	5-13-24 / 1101	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2	5-13-24 / 1153	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3	5-13-24 / 1243	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	5-13-24 / 1325	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	~~5-13-24~~	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	5-13-24 / 1408	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Camp	5-13-24 / 1610	Whitney Queen	5/13/24 1610

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 8.0 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY LAB#1
LAB NOTES: 9665 ma 5/14

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Justin Gp

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	5-14-24 / 0954	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	5-14-24 / 1121	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	5-14-24 / 1145	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Daniel Crump	5-14-24 / 1439	[signature]	5/14/24 1439

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24050003

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Li Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24050003-012	AP-11		Groundwater	1	2								✓	✓	✓	✓	✓	✓
013	AP-12		Groundwater	1	2								✓	✓	✓	✓	✓	✓
014	AP-13		Groundwater	1	2								✓	✓	✓	✓	✓	✓
015	AP-14	5-14-24 / 1038	Groundwater	1	2								✓	✓	✓	✓	✓	✓
016	T-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
017	T-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
018	T-4	5-14-24 / 1236	Groundwater	1	2								✓	✓	✓	✓	✓	✓
019	T-5	5-14-24 / 1103	Groundwater	1	2								✓	✓	✓	✓	✓	✓
020	T-6	5-14-24 / 1155	Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Daniel Colp	5-14-24 / 1439	[signature]	5/14/24 1439

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Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

			Weather				Well Condition				
WO Sample	Well ID	Program/ Sample Type	Temp (°F)	Precipitation	Wind Direction	Sky	Well Pad	Casing	Protective Cover	Reference Mark/ ID	Well Locked
001	RW-3	Groundwater Sample	73.0	None	S	Partly cloudy	Good	Good	Good	Yes	No
002	AP-1	Groundwater Sample	68.0	None	N	Cloudy	Good	Good	Good	Yes	No
003	AP-2	Groundwater Sample	70.0	None	N	Cloudy	Good	Good	Good	Yes	No
004	AP-3	Groundwater Sample	69.0	Light	N	Cloudy	Good	Good	Good	Yes	No
005	AP-4	Groundwater Sample	73.0	None	S	Cloudy	Good	Good	Good	Yes	No
006	AP-5	Groundwater Sample	64.0	Light	E	Cloudy	Good	Good	Good	Yes	No
007	AP-6	Groundwater Sample	68.0	None	W	Partly cloudy	Good	Good	Good	Yes	No
008	AP-7	Groundwater Sample	65.0	None	E	Cloudy	Good	Good	Good	Yes	No
009	AP-8	Groundwater Sample	59.0	None	E	Clear	Good	Good	Good	Yes	No
010	AP-9	Groundwater Sample	65.0	None	E	Cloudy	Good	Good	Good	Yes	No
011	AP-10	Groundwater Sample	71.0	Light	N	Partly cloudy	Good	Good	Good	Yes	No
012	AP-11	Groundwater Sample	72.0	None	E	Partly cloudy	Good	Good	Good	Yes	No
013	AP-12	Groundwater Sample	72.0	None	E	Cloudy	Good	Good	Good	Yes	No
014	AP-13	Groundwater Sample	72.0	None	E	Partly cloudy	Good	Good	Good	Yes	No
015	AP-14	Groundwater Sample	64.0	Heavy	E	Cloudy	Good	Good	Good	Yes	No
016	T-1	Groundwater Sample	70.0	None	E	Cloudy	Good	Good	Good	Yes	No
017	T-2	Groundwater Sample	71.0	None	E	Cloudy	Good	Good	Good	Yes	No
018	T-4	Groundwater Sample	70.0	None	W	Cloudy	Good	Good	Good	Yes	No
019	T-5	Groundwater Sample	65.0	Light	W	Cloudy	Good	Good	Good	Yes	No
020	T-6	Groundwater Sample	68.0	None	W	Cloudy	Good	Good	Good	Yes	No

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

		GW Level Measurement				Purge Activities							
WO Sample	Well ID	Sampler Initials	Date/Time	DTW (ft)	DTB (ft)	Sampler Initials	Purge Date	Purge Start Time	Purge End Time	Purging/Sampling Device	Well Diameter (in)	Actual Volume Purged (L)	Purge Rate (mL/min)
001	RW-3	TAC	5/9/24 11:19	7.87	44.01	TAC	5/9/2024	11:23	12:12	Bladder Pump	2"	9.0	183.7
002	AP-1	PY	5/13/24 10:25	8.88	31.08	PY	5/13/2024	10:29	11:01	Bladder Pump	2"	11.0	343.7
003	AP-2	PY	5/13/24 11:24	7.05	21.33	PY	5/13/2024	11:25	11:53	Bladder Pump	2"	11.0	392.9
004	AP-3	PY	5/13/24 12:10	9.11	20.80	PY	5/13/2024	12:12	12:43	Bladder Pump	2"	13.0	419.4
005	AP-4	JC	5/13/24 13:08	8.68	60.41	JC	5/13/2024	13:08	13:25	Bladder Pump	2"	5.0	294.1
006	AP-5	JC	5/14/24 9:43	13.60	31.27	JC	5/14/2024	09:43	09:54	Bladder Pump	2"	3.0	272.7
007	AP-6	TAC	5/10/24 9:25	6.57	39.62	TAC	5/10/2024	09:26	10:13	Bladder Pump	2"	8.0	170.2
008	AP-7	JC	5/14/24 11:00	9.87	42.52	JC	5/14/2024	11:01	11:21	Bladder Pump	2"	4.0	200.0
009	AP-8	BG	5/10/24 9:54	3.74	39.60	BG	5/10/2024	09:54	10:35	Peristaltic Pump	2"	5.0	122.0
010	AP-9	JC	5/14/24 11:31	11.87	39.60	JC	5/28/1901	11:31	11:45	Bladder Pump	2"	4.0	285.7
011	AP-10	PY	5/13/24 13:16	2.54	38.07	PY	5/13/2024	13:23	14:08	Peristaltic Pump	2"	13.5	300.0
012	AP-11	BG	5/9/24 13:59	9.75	22.95	BG	5/9/2024	13:59	14:28	Peristaltic Pump	2"	8.5	293.1
013	AP-12	BG	5/9/24 12:26	12.24	30.40	BG	5/9/2024	12:26	13:14	Peristaltic Pump	2"	5.0	104.2
014	AP-13	BG	5/9/24 13:26	10.82	31.00	BG	5/9/2024	13:26	13:50	Peristaltic Pump	2"	2.0	83.3
015	AP-14	JC	5/14/24 10:12	1.55	31.20	JC	5/14/2024	10:12	10:38	Submersible Pump	2"	10.0	384.6
016	T-1	BG	5/9/24 12:15	9.78	22.95	BG	5/9/2024	10:44	11:10	Peristaltic Pump	2"	3.0	115.4
017	T-2	BG	5/9/24 11:22	19.25	34.44	BG	5/9/2024	11:22	11:45	Peristaltic Pump	2"	3.0	130.4
018	T-4	PY	5/14/24 12:09	12.72	27.42	PY	5/14/2024	12:10	12:36	Peristaltic Pump	2"	8.0	307.7
019	T-5	PY	5/14/24 10:26	5.30	22.34	Py	5/14/2024	10:31	11:03	Peristaltic Pump	2"	8.0	250.0
020	T-6	py	5/14/24 11:15	8.45	43.62	PY	5/14/2024	11:20	11:55	Peristaltic Pump	2"	8.0	228.6

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

		Sampling Activities and Observations									
WO Sample	**Well ID**	**Sampler Initials**	**Date**	**Time**	**Sampling Method**	**Field Filtered**	**Appearance**	**Odor**	**Color**	**Post-Sample DTW (ft)**	**Drawdown (ft)**
001	RW-3	TAC	05/09/24	12:12	Low Flow	Yes	Clear	None	None	14.87	**7.00**
002	AP-1	TAC	05/13/24	11:01	Low Flow	No	Clear	None	None	9.26	0.38
003	AP-2	TAC	05/13/24	11:53	Low Flow	No	Clear	None	None	7.17	0.12
004	AP-3	TAC	05/13/24	12:43	Low Flow	No	Clear	None	None	9.30	0.19
005	AP-4	JC	05/13/24	13:25	Low Flow	No	Clear	None	none	9.05	0.37
006	AP-5	JC	05/14/24	09:54	Low Flow	No	Clear	None	none	14.51	**0.91**
007	AP-6	TAC	05/10/24	10:13	Low Flow	No	Clear	None	None	15.10	**8.53**
008	AP-7	JC	05/14/24	11:21	Low Flow	No	Clear	None	none	12.47	**2.60**
009	AP-8	BG	05/10/24	`1035	Low Flow	No	Clear	None	CLEAR	4.04	0.30
010	AP-9	JC	05/14/24	11:45	Low Flow	No	Slightly cloudy	None	lt brown	12.46	**0.59**
011	AP-10	TAC	05/13/24	14:08	Low Flow	No	Clear	None	None	2.81	0.27
012	AP-11	BG	05/09/24	14:28	Low Flow	No	Slightly cloudy	Slight	LT BROWN	9.86	0.11
013	AP-12	BG	05/09/24	13:14	Low Flow	No	Cloudy	Moderate	GRAY	13.25	**1.01**
014	AP-13	BG	05/09/24	13:50	Low Flow	No	Clear	Slight	Lt GRAY	11.02	0.20
015	AP-14	JC	05/14/24	10:38	Low Flow	No	Clear	None	none	1.89	0.34
016	T-1	BG	05/09/24	11:10	Low Flow	No	Clear	None	Clear	10.42	**0.64**
017	T-2	BG	05/09/24	11:45	Low Flow	No	Clear	None	CLEAR	20.12	**0.87**
018	T-4	TAC	05/14/24	12:36	Low Flow	No	Clear	None	None	14.26	**1.54**
019	T-5	TAC	05/14/24	11:03	Low Flow	No	Clear	None	None	6.36	**1.06**
020	T-6	TAC	05/14/24	11:55	Low Flow	No	Clear	None	None	8.89	0.44

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Summary
CWLP- Ash Ponds- 2Q 2024

WO Sample	Well ID	COMMENTS
001	RW-3	
002	AP-1	
003	AP-2	
004	AP-3	
005	AP-4	
006	AP-5	
007	AP-6	
008	AP-7	
009	AP-8	
010	AP-9	
011	AP-10	
012	AP-11	
013	AP-12	
014	AP-13	
015	AP-14	
016	T-1	
017	T-2	
018	T-4	
019	T-5	
020	T-6	

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Stabilized Field Parameters Summary
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	LIMS ID
RW-3	5/9/2024	12:12	15.1	59.14	6.70	644.4	0.82	23.40	-105.9	7.87	24050003-001A
AP-1	5/13/2024	11:01	14.7	58.50	6.31	1,758.0	0.69	5.74	-86.5	8.88	24050003-002A
AP-2	5/13/2024	11:53	15.1	59.18	6.21	1,286.5	0.68	4.90	-5.8	7.05	24050003-003A
AP-3	5/13/2024	12:43	16.0	60.86	6.36	1,218.9	0.68	2.72	-53.2	9.11	24050003-004A
AP-4	5/13/2024	13:25	17.2	62.96	6.83	588.1	0.40	23.97	-122.8	8.68	24050003-005A
AP-5	5/14/2024	9:54	13.6	56.49	6.99	468.0	0.71	5.17	-67.9	13.60	24050003-006A
AP-6	5/10/2024	10:13	13.5	56.26	7.27	661.5	3.05	18.97	-20.0	6.57	24050003-007A
AP-7	5/14/2024	11:21	14.2	57.47	7.15	440.8	0.92	17.95	-122.2	9.87	24050003-008A
AP-8	5/10/2024	10:35	15.2	59.32	7.03	916.7	1.05	33.67	-116.8	3.74	24050003-009A
AP-9	5/14/2024	11:45	14.6	58.19	6.75	658.9	0.41	39.76	-40.2	11.87	24050003-010A
AP-10	5/13/2024	14:08	15.8	60.36	6.54	1,142.7	1.49	6.02	-81.1	2.54	24050003-011A
AP-11	5/9/2024	14:28	17.7	63.82	6.75	1,351.2	2.84	60.05	-61.7	9.75	24050003-012A
AP-12	5/9/2024	13:14	15.8	60.52	6.52	1,675.9	1.31	88.76	-60.3	12.24	24050003-013A
AP-13	5/9/2024	13:50	16.3	61.41	6.70	804.3	2.21	5.64	-73.7	10.82	24050003-014A
AP-14	5/14/2024	10:38	13.6	56.43	6.95	1,124.6	0.14	2.92	-48.8	1.55	24050003-015A
T-1	5/9/2024	11:10	14.1	57.40	6.57	780.0	1.98	2.28	30.9	9.78	24050003-016A
T-2	5/9/2024	11:45	14.9	58.79	6.51	1,979.6	2.28	3.93	14.9	19.25	24050003-017A
T-4	5/14/2024	12:36	12.8	55.03	6.31	463.7	1.11	8.09	-2.7	12.72	24050003-018A
T-5	5/14/2024	11:03	12.3	54.09	6.62	489.5	1.35	5.40	-1.5	5.30	24050003-019A
T-6	5/14/2024	11:55	14.6	58.34	6.56	852.5	1.03	32.75	-93.5	8.45	24050003-020A

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
RW-3	5/9/2024	11:42	7.87	14.5	58.2	6.69	602.3	1.26	10.26	-78.5
RW-3	5/9/2024	11:45	7.87	14.5	58.2	6.69	608.1	1.20	11.81	-82.6
RW-3	5/9/2024	11:48	7.87	14.8	58.6	6.69	611.2	1.15	14.38	-85.6
RW-3	5/9/2024	11:51	7.87	15.0	59.0	6.68	619.0	1.10	17.50	-88.8
RW-3	5/9/2024	11:54	7.87	14.9	58.9	6.68	629.8	1.02	23.27	-93.1
RW-3	5/9/2024	11:57	7.87	14.9	58.9	6.68	634.7	0.97	23.78	-96.7
RW-3	5/9/2024	12:00	7.87	15.0	58.9	6.68	637.4	0.93	27.74	-99.1
RW-3	5/9/2024	12:03	7.87	15.0	58.9	6.69	640.9	0.89	18.67	-101.4
RW-3	5/9/2024	12:06	7.87	14.9	58.7	6.69	642.7	0.87	18.32	-103.1
RW-3	5/9/2024	12:09	7.87	15.0	59.0	6.69	642.8	0.84	18.38	-104.6
RW-3	5/9/2024	12:12	7.87	15.1	59.1	6.70	644.4	0.82	23.40	-105.9

Site Samping Event: CWLP- 2Q24 **Groundwater Sampling Field Forms- GW Quality Parameters**
LIMS Workorder: 24050003 **CWLP- Ash Ponds- 2Q 2024**
Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-1	5/13/2024	10:46	8.88	14.6	58.3	6.31	1,732.8	0.88	13.23	-81.0
AP-1	5/13/2024	10:49	8.88	14.6	58.3	6.31	1,749.6	0.82	11.40	-83.0
AP-1	5/13/2024	10:52	8.88	14.7	58.4	6.32	1,753.7	0.77	8.65	-84.2
AP-1	5/13/2024	10:55	8.88	14.6	58.3	6.32	1,757.7	0.74	7.76	-85.0
AP-1	5/13/2024	10:58	8.88	14.7	58.4	6.31	1,757.9	0.71	6.77	-85.8
AP-1	5/13/2024	11:01	8.88	14.7	58.5	6.31	1,758.0	0.69	5.74	-86.5

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-2	5/13/2024	11:35	7.05	13.5	56.3	6.26	1,257.7	1.06	15.63	-9.9
AP-2	5/13/2024	11:38	7.05	13.6	56.4	6.23	1,261.1	0.90	10.12	-7.8
AP-2	5/13/2024	11:41	7.05	13.6	56.5	6.22	1,267.6	0.81	8.13	-6.6
AP-2	5/13/2024	11:44	7.05	13.6	56.5	6.21	1,274.1	0.75	7.60	-5.7
AP-2	5/13/2024	11:47	7.05	13.6	56.5	6.20	1,282.5	0.70	6.27	-5.1
AP-2	5/13/2024	11:50	7.05	14.9	58.8	6.20	1,279.4	0.68	5.98	-5.6
AP-2	5/13/2024	11:53	7.05	15.1	59.2	6.21	1,286.5	0.68	4.90	-5.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-3	5/13/2024	12:25	9.11	13.8	56.8	6.38	1,211.7	0.90	4.95	-52.3
AP-3	5/13/2024	12:28	9.11	13.8	56.8	6.37	1,212.2	0.80	4.33	-53.6
AP-3	5/13/2024	12:31	9.11	13.8	56.8	6.36	1,213.0	0.74	3.58	-54.0
AP-3	5/13/2024	12:34	9.11	13.8	56.8	6.35	1,212.9	0.69	3.39	-54.4
AP-3	5/13/2024	12:37	9.11	14.9	58.8	6.35	1,198.9	0.67	3.08	-54.7
AP-3	5/13/2024	12:40	9.11	15.7	60.3	6.35	1,213.7	0.68	2.95	-54.6
AP-3	5/13/2024	12:43	9.11	16.0	60.9	6.36	1,218.9	0.68	2.72	-53.2

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-4	5/13/2024	13:16	8.68	17.4	63.3	6.81	587.7	0.73	18.58	-112.0
AP-4	5/13/2024	13:19	8.68	17.3	63.1	6.82	588.2	0.52	19.29	-118.2
AP-4	5/13/2024	13:22	8.68	17.3	63.1	6.83	588.6	0.44	20.77	-121.0
AP-4	5/13/2024	13:25	8.68	17.2	63.0	6.83	588.1	0.40	23.97	-122.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-5	5/14/2024	9:45	13.60	13.1	55.7	6.97	467.0	1.57	7.43	-60.2
AP-5	5/14/2024	9:48	13.60	13.8	56.8	6.97	466.2	1.00	6.39	-71.9
AP-5	5/14/2024	9:51	13.60	13.7	56.6	6.98	466.6	0.80	5.66	-70.7
AP-5	5/14/2024	9:54	13.60	13.6	56.5	6.99	468.0	0.71	5.17	-67.9

Site Samping Event: CWLP- 2Q24 **Groundwater Sampling Field Forms- GW Quality Parameters**
LIMS Workorder: 24050003 **CWLP- Ash Ponds- 2Q 2024**
Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-6	5/10/2024	9:58	6.57	13.4	56.1	7.27	659.7	3.33	9.25	-13.2
AP-6	5/10/2024	10:01	6.57	13.3	56.0	7.27	659.7	3.28	12.13	-15.2
AP-6	5/10/2024	10:04	6.57	13.3	55.9	7.27	659.9	3.22	14.64	-15.2
AP-6	5/10/2024	10:07	6.57	13.3	55.9	7.27	660.5	3.14	17.45	-16.6
AP-6	5/10/2024	10:10	6.57	13.4	56.1	7.27	660.6	3.09	16.86	-19.0
AP-6	5/10/2024	10:13	6.57	13.5	56.3	7.27	661.5	3.05	18.97	-20.0

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-7	5/14/2024	11:03	9.87	13.9	57.0	7.27	422.2	1.76	10.35	-106.4
AP-7	5/14/2024	11:06	9.87	14.3	57.7	7.15	435.9	0.74	24.14	-136.6
AP-7	5/14/2024	11:09	9.87	14.0	57.2	7.13	457.1	0.82	56.85	-134.2
AP-7	5/14/2024	11:12	9.87	13.9	57.1	7.14	443.5	0.93	30.37	-126.5
AP-7	5/14/2024	11:15	9.87	14.0	57.2	7.15	438.8	0.96	18.73	-123.1
AP-7	5/14/2024	11:18	9.87	14.0	57.1	7.15	439.0	0.94	15.25	-122.2
AP-7	5/14/2024	11:21	9.87	14.2	57.5	7.15	440.8	0.92	17.95	-122.2

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-8	5/10/2024	10:05	3.74	14.3	57.8	7.04	919.3	1.52	37.07	-118.2
AP-8	5/10/2024	10:08	3.74	14.4	57.9	7.04	913.6	1.47	39.30	-117.1
AP-8	5/10/2024	10:11	3.74	15.0	59.0	7.03	916.0	1.50	43.50	-116.5
AP-8	5/10/2024	10:14	3.74	14.3	57.8	7.03	918.1	1.38	30.38	-116.8
AP-8	5/10/2024	10:17	3.74	14.2	57.5	7.03	914.2	1.28	27.88	-117.5
AP-8	5/10/2024	10:20	3.74	14.5	58.2	7.03	915.8	1.18	30.64	-118.3
AP-8	5/10/2024	10:23	3.74	14.3	57.7	7.03	916.7	1.17	23.09	-118.3
AP-8	5/10/2024	10:26	3.74	14.5	58.0	7.03	915.1	1.12	25.30	-118.0
AP-8	5/10/2024	10:29	3.74	14.5	58.2	7.02	915.9	1.11	30.18	-117.8
AP-8	5/10/2024	10:32	3.74	14.8	58.7	7.03	916.3	1.07	32.46	-117.5
AP-8	5/10/2024	10:35	3.74	15.2	59.3	7.03	916.7	1.05	33.67	-116.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-9	5/14/2024	11:33	11.87	14.7	58.4	6.74	656.6	0.96	36.91	-35.8
AP-9	5/14/2024	11:36	11.87	15.0	59.0	6.74	658.8	0.81	35.35	-37.4
AP-9	5/14/2024	11:39	11.87	15.2	59.4	6.75	660.1	0.69	34.04	-38.8
AP-9	5/14/2024	11:42	11.87	14.4	57.9	6.75	661.2	0.52	38.10	-39.2
AP-9	5/14/2024	11:45	11.87	14.6	58.2	6.75	658.9	0.41	39.76	-40.2

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-10	5/13/2024	13:41	2.54	16.0	60.8	6.56	1,139.8	2.71	8.84	-74.2
AP-10	5/13/2024	13:44	2.54	15.9	60.6	6.56	1,140.3	2.51	24.11	-75.1
AP-10	5/13/2024	13:47	2.54	15.9	60.6	6.56	1,141.1	2.32	34.69	-76.2
AP-10	5/13/2024	13:50	2.54	15.8	60.5	6.55	1,142.6	2.16	7.01	-76.9
AP-10	5/13/2024	13:53	2.54	15.8	60.5	6.55	1,141.8	2.02	6.73	-77.7
AP-10	5/13/2024	13:56	2.54	15.7	60.2	6.55	1,141.9	1.90	13.94	-78.4
AP-10	5/13/2024	13:59	2.54	15.6	60.1	6.55	1,142.5	1.78	6.44	-79.2
AP-10	5/13/2024	14:02	2.54	15.6	60.1	6.55	1,141.8	1.67	5.10	-79.9
AP-10	5/13/2024	14:05	2.54	15.6	60.1	6.54	1,143.8	1.58	3.59	-80.3
AP-10	5/13/2024	14:08	2.54	15.8	60.4	6.54	1,142.7	1.49	6.02	-81.1

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-11	5/9/2024	14:19	9.75	15.7	60.3	6.73	1,340.1	2.62	63.80	-59.7
AP-11	5/9/2024	14:22	9.75	16.3	61.3	6.74	1,353.1	2.78	58.44	-60.4
AP-11	5/9/2024	14:25	9.75	16.8	62.2	6.75	1,364.8	2.69	52.91	-62.3
AP-11	5/9/2024	14:28	9.75	17.7	63.8	6.75	1,351.2	2.84	60.05	-61.7

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-12	5/9/2024	12:38	12.24	15.0	59.0	6.50	1,686.5	1.39	49.54	-61.9
AP-12	5/9/2024	12:41	12.24	15.1	59.2	6.50	1,685.5	1.36	44.95	-61.8
AP-12	5/9/2024	12:44	12.24	15.1	59.1	6.51	1,686.5	1.33	40.82	-61.4
AP-12	5/9/2024	12:47	12.24	14.9	58.9	6.51	1,686.6	1.29	53.20	-61.1
AP-12	5/9/2024	12:50	12.24	14.8	58.7	6.51	1,685.1	1.23	43.80	-61.1
AP-12	5/9/2024	12:53	12.24	14.8	58.7	6.51	1,683.3	1.22	35.78	-61.1
AP-12	5/9/2024	12:56	12.24	14.9	58.9	6.51	1,682.2	1.21	24.85	-60.8
AP-12	5/9/2024	12:59	12.24	15.2	59.3	6.52	1,682.4	1.20	22.01	-60.9
AP-12	5/9/2024	13:02	12.24	16.1	61.0	6.52	1,668.7	1.32	31.54	-61.7
AP-12	5/9/2024	13:05	12.24	14.7	58.4	6.53	1,689.9	1.26	61.81	-59.8
AP-12	5/9/2024	13:08	12.24	14.5	58.1	6.52	1,680.6	1.17	99.14	-60.4
AP-12	5/9/2024	13:11	12.24	15.1	59.2	6.52	1,666.4	1.19	90.36	-61.0
AP-12	5/9/2024	13:14	12.24	15.8	60.5	6.52	1,675.9	1.31	88.76	-60.3

Site Samping Event: CWLP- 2Q24 **Groundwater Sampling Field Forms- GW Quality Parameters**
LIMS Workorder: 24050003 **CWLP- Ash Ponds- 2Q 2024**
Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-13	5/9/2024	13:38	10.82	14.4	57.8	6.67	795.3	1.97	81.75	-75.2
AP-13	5/9/2024	13:41	10.82	14.7	58.4	6.67	795.3	1.95	45.14	-75.3
AP-13	5/9/2024	13:44	10.82	15.5	59.8	6.67	801.2	2.03	7.05	-76.2
AP-13	5/9/2024	13:47	10.82	15.9	60.6	6.69	802.2	1.99	10.83	-76.0
AP-13	5/9/2024	13:50	10.82	16.3	61.4	6.70	804.3	2.21	5.64	-73.7

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
AP-14	5/14/2024	10:20	1.55	13.6	56.5	6.99	1,118.6	1.95	42.77	41.6
AP-14	5/14/2024	10:23	1.55	13.7	56.6	6.97	1,121.3	1.26	26.70	-11.0
AP-14	5/14/2024	10:26	1.55	13.5	56.3	6.98	1,121.7	1.14	22.63	-20.7
AP-14	5/14/2024	10:29	1.55	13.2	55.7	6.97	1,122.8	0.84	466.73	-29.2
AP-14	5/14/2024	10:32	1.55	13.5	56.3	6.96	1,123.9	0.51	11.22	-38.5
AP-14	5/14/2024	10:35	1.55	13.5	56.3	6.95	1,124.8	0.18	3.78	-46.0
AP-14	5/14/2024	10:38	1.55	13.6	56.4	6.95	1,124.6	0.14	2.92	-48.8

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T-1	5/9/2024	10:52	9.78	14.7	58.4	6.61	799.0	3.10	21.24	-3.1
T-1	5/9/2024	10:55	9.78	14.5	58.1	6.59	790.5	2.96	23.14	-2.6
T-1	5/9/2024	10:58	9.78	14.4	58.0	6.58	782.0	2.65	12.50	-1.2
T-1	5/9/2024	11:01	9.78	14.2	57.6	6.58	777.0	2.48	4.70	7.7
T-1	5/9/2024	11:04	9.78	14.1	57.4	6.57	776.8	2.17	6.74	20.4
T-1	5/9/2024	11:07	9.78	14.2	57.5	6.57	777.5	2.05	2.57	27.4
T-1	5/9/2024	11:10	9.78	14.1	57.4	6.57	780.0	1.98	2.28	30.9

Site Samping Event: CWLP- 2Q24 **Groundwater Sampling Field Forms- GW Quality Parameters**
LIMS Workorder: 24050003 **CWLP- Ash Ponds- 2Q 2024**
Technician(s): DC, JC, TC, BG, PY

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T-2	5/9/2024	11:36	19.25	14.4	57.9	6.52	1,955.3	2.95	12.39	16.0
T-2	5/9/2024	11:39	19.25	14.6	58.3	6.51	1,963.2	2.71	7.36	14.3
T-2	5/9/2024	11:42	19.25	14.8	58.6	6.51	1,970.2	2.48	5.01	14.5
T-2	5/9/2024	11:45	19.25	14.9	58.8	6.51	1,979.6	2.28	3.93	14.9

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T-4	5/14/2024	12:24	12.72	12.7	54.8	6.38	481.0	1.50	8.20	-15.0
T-4	5/14/2024	12:27	12.72	12.7	54.8	6.36	478.1	1.35	8.64	-11.0
T-4	5/14/2024	12:30	12.72	12.7	54.8	6.34	476.9	1.25	8.84	-7.5
T-4	5/14/2024	12:33	12.72	12.8	55.1	6.32	471.3	1.17	8.56	-4.8
T-4	5/14/2024	12:36	12.72	12.8	55.0	6.31	463.7	1.11	8.09	-2.7

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T-5	5/14/2024	10:45	5.30	12.4	54.3	6.72	490.8	2.06	29.26	-5.9
T-5	5/14/2024	10:48	5.30	12.3	54.2	6.68	491.6	1.88	22.36	-4.5
T-5	5/14/2024	10:51	5.30	12.3	54.2	6.67	492.3	1.70	17.13	-3.9
T-5	5/14/2024	10:54	5.30	12.1	53.8	6.65	492.7	1.56	12.69	-3.4
T-5	5/14/2024	10:57	5.30	12.2	54.0	6.64	491.8	1.47	7.45	-3.1
T-5	5/14/2024	11:00	5.30	12.4	54.2	6.63	490.6	1.41	6.93	-2.4
T-5	5/14/2024	11:03	5.30	12.3	54.1	6.62	489.5	1.35	5.40	-1.5

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Groundwater Sampling Field Forms- GW Quality Parameters
CWLP- Ash Ponds- 2Q 2024

Well ID	Date	Time	DTW	Temp (°C)	Temp (°F)	pH (SU)	Sp Cond (µmhos/cm @25C)	ODO (mg/L)	Turbidity (NTU)	ORP (mV)
T-6	5/14/2024	11:37	8.45	14.8	58.6	6.58	852.5	1.95	120.51	-82.7
T-6	5/14/2024	11:40	8.45	14.9	58.8	6.57	858.6	1.48	113.83	-87.1
T-6	5/14/2024	11:43	8.45	14.7	58.5	6.57	857.7	1.31	95.72	-89.6
T-6	5/14/2024	11:46	8.45	14.8	58.7	6.57	853.4	1.19	72.79	-91.3
T-6	5/14/2024	11:49	8.45	14.7	58.5	6.56	855.6	1.13	53.26	-92.4
T-6	5/14/2024	11:52	8.45	14.7	58.4	6.56	854.7	1.07	41.86	-93.0
T-6	5/14/2024	11:55	8.45	14.6	58.3	6.56	852.5	1.03	32.75	-93.5

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 9:25
7.0 Buffer	WC240307F	7.00	5/9/24 9:37
10.0 Buffer	WC231027D	10.01	5/9/24 9:40
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 9:42

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/9/24 9:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 18:30	18.96	7.00	1,412	1.5		
CCV-1	CCV	5/9/24 18:29	20.62	7.02	1,413	1.5		

Comments:

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.01	5/10/24 8:54
7.0 Buffer	WC240307F	7.02	5/10/24 16:36
10.0 Buffer	WC231027D	10.00	5/10/24 16:36
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1413	5/10/24 16:38

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.5	5/10/24 16:38
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 16:38	18.65	7.01	1,413	1.5		
CCV-2	CCV	5/10/24 16:39	20.64	7.02	1,415	1.4		

Comments:

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 26599 Technician(s): B. Gillihan Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 9:29
7.0 Buffer	WC240307F	7.03	5/13/24 9:36
10.0 Buffer	WC231027D	10.01	5/13/24 9:42
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1415	5/13/24 9:51

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.6	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:05	19.72	7.02	1,415	1.6		
CCV-3	CCV	5/13/24 11:05	20.01	7.01	1,415	1.5		

Comments:

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Daniel Crump/Tracy Carroll Date: 5/8/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/8/24 10:09
7.0 Buffer	WC240307F	7.01	5/8/24 10:07
10.0 Buffer	WC230619B	10.00	5/8/24 10:11
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/8/24 10:14

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/8/24 10:16	22.9	7.09	1,413			
CCV-1	CCV	5/8/24 13:21	21	7.02	1,439			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/9/24 11:02
7.0 Buffer	WC240307F	7.02	5/9/24 11:01
10.0 Buffer	WC230619B	10.00	5/9/24 11:03
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/9/24 11:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/9/24 11:16	24.2	7.06	1,413			
CCV-2	CCV	5/9/24 15:03	25.2	7.08	1,488			

Comments:

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/10/24 9:28
7.0 Buffer	WC240307F	7.04	5/10/24 9:25
10.0 Buffer	WC230619B	10.00	5/10/24 9:31
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/10/24 9:32

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/10/24 9:36	14.5	7.05	1,414	1.95		
CCV-3	CCV	5/10/24 10:55	15.2	7.04	1,488			

Comments:

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/13/24 10:00
7.0 Buffer	WC240307F	7.01	5/13/24 9:57
10.0 Buffer	WC230619B	10.00	5/13/24 10:04
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/13/24 10:14	23.7	6.99	1,411			
CCV-4	CCV	5/13/24 14:33	28	6.90	1,435			

Comments:

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45986 Technician(s): Tracy Carroll/Payton Yoch Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230830B	4.00	5/14/24 10:22
7.0 Buffer	WC240307F	7.01	5/14/24 10:22
10.0 Buffer	WC230619B	10.00	5/14/24 10:23
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/14/24 10:23

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-5	LCS	5/14/24 10:25	23.7	6.99	1,412			
CCV-5	CCV	5/14/24 13:30	22.9	7.02	1,455			

Comments:

Site Samping Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/9/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.99	5/9/24 9:29
7.0 Buffer	wc240307f	7.01	5/9/24 9:23
10.0 Buffer	wc231027d	10.00	5/9/24 9:37
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1409	5/9/24 9:41

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	5/9/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1	LCS	5/9/24 9:44	20.5	7.01	1,409	0.93		
CCV-M-1	CCV	5/9/24 12:11	21.7	7.03	1,421	0.96		
CCV-1	CCV	5/9/24 14:35	22.8	7.03	1,424	1.04		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/10/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.00	5/10/24 9:32
7.0 Buffer	wc240307f	7.02	5/10/24 9:30
10.0 Buffer	wc231027d	9.98	5/10/24 9:35
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/10/24 9:40

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.87	5/10/24 9:40
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2	LCS	5/10/24 9:43	18.8	7.02	1,410	0.87		
CCV-2	CCV	5/10/24 10:58	19.7	7.02	1,416	0.89		

Comments:

Site Sampling Event: CWLP- 2Q24
LIMS Workorder: 24050003
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- Ash Ponds- 2Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	4.01	5/13/24 9:49
7.0 Buffer	wc240307f	7.01	5/13/24 9:43
10.0 Buffer	wc231027d	9.98	5/13/24 9:58
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1412	5/13/24 9:58

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.86	5/13/24 9:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3	LCS	5/13/24 10:00	21.7	7.01	1,412	0.86		
CCV-3	CCV	5/13/24 14:28	22.1	7.03	1,420	0.92		

Comments:

Field Meter ID: Pine 218083 Technician(s): justin colp Date: 5/14/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230830b	3.98	5/14/24 9:25
7.0 Buffer	wc240307f	7.00	5/14/24 9:21
10.0 Buffer	wc231027d	9.99	5/14/24 9:28
LCS/CCV (7.0 Buffer)			

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	95009	1410	5/14/24 9:35

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.96	5/14/24 9:35
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4	LCS	5/14/24 9:37	20.2	7.00	1,410	0.96		
CCV-4	CCV	5/14/24 12:17	21	7.01	1,418	0.99		

Comments:

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

June 12, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24050003

Dear Shelly Hennessy:

Order No.: 24051620

Summit Environmental Technologies, Inc. received 20 sample(s) on 5/17/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24051620**
Date: **6/12/2024**

CLIENT: TEKLAB Inc,
Project: 24050003

WorkOrder Narrative:
24051620: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-75651 Radium-228_NPW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets required criteria.
LCS/LCSD-75699 Radium-228_DW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets the required criteria.
LCS/LCSD-75740 Radium-226_DW(903.0): LCS/LCSD exhibit a high RPD, individually each LCS/LCSD meet required criteria.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24051620**
Date: **6/12/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **24051620**

12-Jun-24

CLIENT: TEKLAB Inc,
Project: 24050003

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24051620-001	24050003-001		5/9/2024 12:12:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-002	24050003-002		5/13/2024 11:01:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-003	24050003-003		5/13/2024 11:53:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-004	24050003-004		5/13/2024 12:43:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-005	24050003-005		5/13/2024 1:25:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-006	24050003-006		5/14/2024 9:54:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-007	24050003-007		5/10/2024 10:13:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-008	24050003-008		5/14/2024 11:21:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-009	24050003-009		5/10/2024 10:35:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-010	24050003-010		5/14/2024 11:45:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-011	24050003-011		5/13/2024 2:08:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-012	24050003-012		5/9/2024 11:10:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-013	24050003-013		5/9/2024 1:14:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-014	24050003-014		5/9/2024 1:50:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-015	24050003-015		5/14/2024 10:38:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-016	24050003-016		5/9/2024 2:28:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-017	24050003-017		5/9/2024 11:45:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-018	24050003-018		5/14/2024 12:36:00 PM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-019	24050003-019		5/14/2024 11:03:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water
24051620-020	24050003-020		5/14/2024 11:55:00 AM	5/17/2024 12:15:00 PM	Non-Potable Water

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Summit Environmental Technologies, Inc.
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Website: http://www.settek.com

DATES REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24051620-001A	24050003-001	5/9/2024 12:12:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-002A	24050003-002	5/13/2024 11:01:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-003A	24050003-003	5/13/2024 11:53:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-004A	24050003-004	5/13/2024 12:43:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-005A	24050003-005	5/13/2024 1:25:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-006A	24050003-006	5/14/2024 9:54:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-007A	24050003-007	5/10/2024 10:13:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-008A	24050003-008	5/14/2024 11:21:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-009A	24050003-009	5/10/2024 10:35:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-010A	24050003-010	5/14/2024 11:45:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-011A	24050003-011	5/13/2024 2:08:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-012A	24050003-012	5/9/2024 11:10:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM

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DATES REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24051620-012A	24050003-012	5/9/2024 11:10:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-013A	24050003-013	5/9/2024 1:14:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-014A	24050003-014	5/9/2024 1:50:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-015A	24050003-015	5/14/2024 10:38:00 AM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-016A	24050003-016	5/9/2024 2:28:00 PM		Radium-226 (EPA 903.0)		5/28/2024 10:05:00 AM	6/4/2024 9:57:00 AM
				Radium-228 (EPA 904.0)		5/28/2024 10:05:00 AM	6/3/2024 2:37:00 PM
24051620-017A	24050003-017	5/9/2024 11:45:00 AM		Radium-226 (EPA 903.0)		5/29/2024 12:23:00 PM	6/5/2024 10:01:00 AM
				Radium-228 (EPA 904.0)		5/29/2024 12:23:00 PM	6/4/2024 2:54:00 PM
24051620-018A	24050003-018	5/14/2024 12:36:00 PM		Radium-226 (EPA 903.0)		5/29/2024 12:23:00 PM	6/5/2024 10:01:00 AM
				Radium-228 (EPA 904.0)		5/29/2024 12:23:00 PM	6/4/2024 2:54:00 PM
24051620-019A	24050003-019	5/14/2024 11:03:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM
24051620-020A	24050003-020	5/14/2024 11:55:00 AM		Radium-226 (EPA 903.0)		5/30/2024 1:15:00 PM	6/10/2024 12:05:07 PM
				Radium-228 (EPA 904.0)		5/30/2024 1:15:00 PM	6/7/2024 12:56:15 PM

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/9/2024 12:12:00 PM

Project: 24050003

Lab ID: 24051620-001
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.280	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 11:01:00 AM

Project: 24050003

Lab ID: 24051620-002

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.130	1	6/4/2024 9:57:00 AM
Yield	0.960					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.200	1	6/3/2024 2:37:00 PM
Yield	0.950					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/13/2024 11:53:00 AM

Project: 24050003

Lab ID: 24051620-003

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.260	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/13/2024 12:43:00 PM

Project: 24050003

Lab ID: 24051620-004
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.250	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/13/2024 1:25:00 PM

Project: 24050003

Lab ID: 24051620-005
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.100	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.300	1	6/3/2024 2:37:00 PM
Yield	0.980					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 9:54:00 AM

Project: 24050003

Lab ID: 24051620-006
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0300	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.260	1	6/3/2024 2:37:00 PM
Yield	0.980					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/10/2024 10:13:00 AM

Project: 24050003

Lab ID: 24051620-007
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.210	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 11:21:00 AM

Project: 24050003

Lab ID: 24051620-008
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.290	1	6/3/2024 2:37:00 PM
Yield	0.990					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/10/2024 10:35:00 AM

Project: 24050003

Lab ID: 24051620-009
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.150	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.350	1	6/3/2024 2:37:00 PM
Yield	0.990					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 11:45:00 AM

Project: 24050003

Lab ID: 24051620-010
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.290	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/13/2024 2:08:00 PM

Project: 24050003

Lab ID: 24051620-011
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.170	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.290	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/9/2024 11:10:00 AM

Project: 24050003

Lab ID: 24051620-012

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.130	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	1.28	1.00		pCi/L	± 0.400	1	6/3/2024 2:37:00 PM
Yield	0.950					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/9/2024 1:14:00 PM

Project: 24050003

Lab ID: 24051620-013

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-013

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.120	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.340	1	6/3/2024 2:37:00 PM
Yield	0.950					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/9/2024 1:50:00 PM

Project: 24050003

Lab ID: 24051620-014
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-014

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	6/4/2024 9:57:00 AM
Yield	0.940					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.280	1	6/3/2024 2:37:00 PM
Yield	0.850					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 10:38:00 AM

Project: 24050003

Lab ID: 24051620-015
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.310	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/9/2024 2:28:00 PM

Project: 24050003

Lab ID: 24051620-016
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-016

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	6/4/2024 9:57:00 AM
Yield	1.00					1	6/4/2024 9:57:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.240	1	6/3/2024 2:37:00 PM
Yield	1.00					1	6/3/2024 2:37:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/9/2024 11:45:00 AM

Project: 24050003

Lab ID: 24051620-017
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-017

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	6/5/2024 10:01:00 AM
Yield	0.970					1	6/5/2024 10:01:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.510	1	6/4/2024 2:54:00 PM
Yield	0.790					1	6/4/2024 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 12:36:00 PM

Project: 24050003

Lab ID: 24051620-018
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-018

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	6/5/2024 10:01:00 AM
Yield	1.00					1	6/5/2024 10:01:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.300	1	6/4/2024 2:54:00 PM
Yield	1.00					1	6/4/2024 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,

Collection Date: 5/14/2024 11:03:00 AM

Project: 24050003

Lab ID: 24051620-019

Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-019

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	6/10/2024 12:05:07 PM
Yield	0.790					1	6/10/2024 12:05:07 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.460	1	6/7/2024 12:56:15 PM
Yield	0.690					1	6/7/2024 12:56:15 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24051620**

Date Reported: **6/12/2024**

CLIENT: TEKLAB Inc,
Collection Date: 5/14/2024 11:55:00 AM

Project: 24050003

Lab ID: 24051620-020
Matrix: NON-POTABLE WATER

Client Sample ID: 24050003-020

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.120	1	6/10/2024 12:05:07 PM
Yield	1.00					1	6/10/2024 12:05:07 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.420	1	6/7/2024 12:56:15 PM
Yield	0.930					1	6/7/2024 12:56:15 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **MB-75651** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**
Client ID: **PBW** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060869**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCSD-75651** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**
Client ID: **LCSS02** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060871**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.50	1.00	5.000	0	90.0	50	130	3.520	24.4	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24051612-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.970			0	0			1.000	3.05		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186770**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E904.0** **E903-904** Analysis Date: **6/3/2024** SeqNo: **5060878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	R
Yield	0.950			0	0			0.9500	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **24051612-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061011**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.960							1.000	4.08	0	

Sample ID: **24051613-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/28/2024** RunNo: **186773**
Client ID: **BatchQC** Batch ID: **75651** TestNo: **E903.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5061013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	0.940							0.9500	1.06	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75651**

Sample ID: **MB-75651**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **PBW**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	ND										

Sample ID: **LCS-75651**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **LCSW**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.94	1.00	5.000	0	98.8	70	130				

Sample ID: **LCSD-75651**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/28/2024**	RunNo: **186773**
Client ID: **LCSS02**	Batch ID: **75651**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/4/2024**	SeqNo: **5061006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.48	1.00	5.000	0	89.6	70	130	4.940	9.77	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **MB-75699** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **PBW** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063570**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-75699** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **LCSW** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063571**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.24	1.00	5.000	0	64.8	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-75699** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **LCSS02** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.05	1.00	5.000	0	81.0	50	130	3.240	22.2	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **24051688-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.890			0	0			1.000	11.6		

Sample ID: **24051688-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186905**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E904.0** **E903-904** Analysis Date: **6/4/2024** SeqNo: **5063584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			0.9300	7.25		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **MB-75699**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **PBW**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063797**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-75699**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **LCSW**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063798**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.93	1.00	5.000	0	98.6	70	130				

Sample ID: **LCSD-75699**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **LCSS02**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.16	1.00	5.000	0	103	70	130	4.930	4.56	20	

Sample ID: **24051688-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **5/29/2024**	RunNo: **186909**
Client ID: **BatchQC**	Batch ID: **75699**	TestNo: **E903.0**	**E903-904**	Analysis Date: **6/5/2024**	SeqNo: **5063808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75699**

Sample ID: **24051688-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186909**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E903.0** **E903-904** Analysis Date: **6/5/2024** SeqNo: **5063808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24051688-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/29/2024** RunNo: **186909**
Client ID: **BatchQC** Batch ID: **75699** TestNo: **E903.0** **E903-904** Analysis Date: **6/5/2024** SeqNo: **5063810**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **MB-75740** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **PBW** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075299**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-75740** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **LCSW** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.94	1.00	5.000	0	78.8	50	130				
Yield	0.890			0	0						

Sample ID: **LCSD-75740** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **LCSS02** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075301**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.07	1.00	5.000	0	81.4	50	130	3.940	3.25	20	
Yield	0.860			0	0			0.8900	3.43		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.910			0	0			0.8900	2.22		

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187287**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E904.0** **E903-904** Analysis Date: **6/7/2024** SeqNo: **5075324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	0.930			0	0			0.9600	3.17		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **MB-75740** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **PBW** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-75740** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **LCSW** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.05	1.00	5.000	0	81.0	70	130				QLR

Sample ID: **LCSD-75740** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **LCSS02** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.95	1.00	5.000	0	99.0	70	130	4.050	20.0	20	R

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24051620**

12-Jun-24

Client: TEKLAB Inc,
Project: 24050003 **BatchID:** **75740**

Sample ID: **24050773-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.9400	6.19	0	

Sample ID: **24052198-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/30/2024** RunNo: **187303**
Client ID: **BatchQC** Batch ID: **75740** TestNo: **E903.0** **E903-904** Analysis Date: **6/10/2024** SeqNo: **5075514**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.960							1.000	4.08	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

24051620

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 20.0-21.9° Sampler: Client QC Level: 2

20.0 +0.0 = 21.0 +0.0 =
21.9 +0.0 = Fedex, Cooler

Project# 24050003

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 36305 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		cpm				pH					
	24050003-001	5/9/2024 12:12	HNO3	Groundwater	✔		20				1					
	24050003-002	5/13/2024 11:01	HNO3	Groundwater	✔		38				1					
	24050003-003	5/13/2024 11:53	HNO3	Groundwater	✔		28				1					
	24050003-004	5/13/2024 12:43	HNO3	Groundwater	✔		30				1					
	24050003-005	5/13/2024 13:25	HNO3	Groundwater	✔		28				1					
	24050003-006	5/14/2024 09:54	HNO3	Groundwater	✔		34				1					
	24050003-007	5/10/2024 10:13	HNO3	Groundwater	✔		24				1					
	24050003-008	5/14/2024 11:21	HNO3	Groundwater	✔		14				1					
	24050003-009	5/10/2024 10:35	HNO3	Groundwater	✔		36				1					
	24050003-010	5/14/2024 11:45	HNO3	Groundwater	✔		20				1					
	24050003-011	5/13/2024 14:08	HNO3	Groundwater	✔		24				1					

*Relinquished By	Date/Time	Received By	Date/Time
Paul Eddy	5/14/24	[signature]	5/17/24, 1215

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: Sampler: Client QC Level: 2

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24050003

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 36305 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
							cpm				PH						
	24050003-012	5/9/2024 11:10	HNO3	Groundwater	✔		20				1						
	24050003-013	5/9/2024 13:14	HNO3	Groundwater	✔		34				1						
	24050003-014	5/9/2024 13:50	HNO3	Groundwater	✔		32				1						
	24050003-015	5/14/2024 10:38	HNO3	Groundwater	✔		34				1						
	24050003-016	5/9/2024 14:28	HNO3	Groundwater	✔		30				1						
	24050003-017	5/9/2024 11:45	HNO3	Groundwater	✔		30				1						
	24050003-018	5/14/2024 12:36	HNO3	Groundwater	✔		24				1						
	24050003-019	5/14/2024 11:03	HNO3	Groundwater	✔		16				1						
	24050003-020	5/14/2024 11:55	HNO3	Groundwater	✔		18				1						
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
Paul Quinlan	5/14/24		

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051620 RcptNo: 1

Logged by:	Tegan A. Richards	5/17/2024 12:15:00 PM	Tegan Richards
Completed By:	Tegan A. Richards	5/21/2024 1:52:00 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	5/21/2024 2:16:21 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.0	Good	Not Present			

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24051620 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	21.0	Good	Not Present			
3	21.9	Good	Not Present			

APPENDIX C-3:

Third Quarter 2024

Laboratory Analytical Report and Field Notes

September 18, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24080242

Dear Eric Staley:

TEKLAB, INC received 20 samples on 8/13/2024 2:27:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	36
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24080242

Client Project: Ash Pond Monitoring Wells **Report Date:** 18-Sep-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24080242

Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24

Cooler Receipt Temp: 12.1 °C

An employee of Teklab, Inc. collected the sample(s).

AP-3 well is damaged, will be collected at a later date.

Radium-226 & -228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	08/12/2024 10:18	R352005
Depth to water	*	-5.00		**8.61**	ft	1	08/12/2024 10:18	R352005
Depth to water from measuring point	*	0		**11.31**	ft	1	08/12/2024 10:18	R352005
Elevation of groundwater surface	*	0		**528.19**	ft	1	08/12/2024 10:18	R352005
Measuring Point Elevation	*	0		**539.50**	ft	1	08/12/2024 10:18	R352005
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	08/12/2024 10:18	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**39**	NTU	1	08/12/2024 10:18	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	08/12/2024 10:18	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.23**		1	08/12/2024 10:18	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**698**	umhos/cm @25C	1	08/12/2024 10:18	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**344**	mg/L	1	08/16/2024 9:41	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**14**	mg/L	1	08/20/2024 11:28	R352032
Matrix spike did not recover within control limits. Results verify by dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.43**	mg/L	1	08/19/2024 9:31	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**29**	mg/L	1	08/20/2024 11:27	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.146**	mg/L	1	08/14/2024 17:13	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:13	227065
Boron	NELAP	0.0200		**0.122**	mg/L	1	08/14/2024 17:13	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:13	227065
Calcium	NELAP	0.100		**63.2**	mg/L	1	08/14/2024 17:13	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:13	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:13	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:13	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:13	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 9:54	227065
Arsenic	NELAP	0.0010		**0.107**	mg/L	5	08/14/2024 22:56	227065
Lithium	*	0.0030		**0.0038**	mg/L	5	08/14/2024 22:56	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 22:56	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 22:56	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:31	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 08/12/2024 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	08/12/2024 11:19	R352005
Depth to water	*	-5.00		**9.07**	ft	1	08/12/2024 11:19	R352005
Depth to water from measuring point	*	0		**11.34**	ft	1	08/12/2024 11:19	R352005
Elevation of groundwater surface	*	0		**524.03**	ft	1	08/12/2024 11:19	R352005
Measuring Point Elevation	*	0		**535.37**	ft	1	08/12/2024 11:19	R352005
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	08/12/2024 11:19	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.6**	NTU	1	08/12/2024 11:19	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.3**	°F	1	08/12/2024 11:19	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	08/12/2024 11:19	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1880**	umhos/cm @25C	1	08/12/2024 11:19	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1530**	mg/L	1	08/16/2024 9:44	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**836**	mg/L	20	08/20/2024 12:10	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.20**	mg/L	1	08/19/2024 9:33	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	8		**59**	mg/L	2	08/22/2024 9:08	R352158
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.269**	mg/L	1	08/14/2024 17:15	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:15	227065
Boron	NELAP	0.200		**22.9**	mg/L	10	08/15/2024 13:58	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:15	227065
Calcium	NELAP	0.100		**244**	mg/L	1	08/14/2024 17:15	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:15	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:15	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:15	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:15	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 9:59	227065
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:01	227065
Lithium	*	0.0030		**0.0103**	mg/L	5	08/14/2024 23:01	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:01	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:01	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:34	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	08/12/2024 13:04	R352005
Depth to water	*	-5.00		**5.99**	ft	1	08/12/2024 13:04	R352005
Depth to water from measuring point	*	0		**8.49**	ft	1	08/12/2024 13:04	R352005
Elevation of groundwater surface	*	0		**527.61**	ft	1	08/12/2024 13:04	R352005
Measuring Point Elevation	*	0		**536.10**	ft	1	08/12/2024 13:04	R352005
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	08/12/2024 13:04	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**32**	NTU	1	08/12/2024 13:04	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.3**	°F	1	08/12/2024 13:04	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.58**		1	08/12/2024 13:04	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1510**	umhos/cm @25C	1	08/12/2024 13:04	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1110**	mg/L	1	08/16/2024 9:44	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**417**	mg/L	20	08/20/2024 12:18	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.25**	mg/L	1	08/19/2024 9:35	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**39**	mg/L	1	08/20/2024 12:13	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0751**	mg/L	1	08/14/2024 17:16	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:16	227065
Boron	NELAP	0.0200		**3.10**	mg/L	1	08/14/2024 17:16	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:16	227065
Calcium	NELAP	0.100		**206**	mg/L	1	08/14/2024 17:16	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:16	227065
Cobalt	NELAP	0.0050		**0.0073**	mg/L	1	08/14/2024 17:16	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:16	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:16	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:05	227065
Arsenic	NELAP	0.0010		**0.0031**	mg/L	5	08/14/2024 23:06	227065
Lithium	*	0.0030		**0.0081**	mg/L	5	08/14/2024 23:06	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:06	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:06	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:36	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/10/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	08/12/2024 12:35	R352005
Depth to water	*	-5.00		**7.69**	ft	1	08/12/2024 12:35	R352005
Depth to water from measuring point	*	0		**10.83**	ft	1	08/12/2024 12:35	R352005
Elevation of groundwater surface	*	0		**544.77**	ft	1	08/12/2024 12:35	R352005
Measuring Point Elevation	*	0		**555.60**	ft	1	08/12/2024 12:35	R352005
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	08/12/2024 12:35	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	08/12/2024 12:35	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**65.1**	°F	1	08/12/2024 12:35	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	08/12/2024 12:35	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**935**	umhos/cm @25C	1	08/12/2024 12:35	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**510**	mg/L	1	08/16/2024 9:56	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**< 10**	mg/L	1	08/20/2024 12:21	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.15**	mg/L	1	08/19/2024 9:42	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**15**	mg/L	1	08/20/2024 12:21	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.374**	mg/L	1	08/14/2024 17:18	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:18	227065
Boron	NELAP	0.0200		**0.0825**	mg/L	1	08/14/2024 17:18	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:18	227065
Calcium	NELAP	0.100	S	**118**	mg/L	1	08/14/2024 17:18	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:18	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:18	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:18	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:18	227065
Matrix spike control limits are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:21	227065
Arsenic	NELAP	0.0010		**0.0207**	mg/L	5	08/14/2024 23:22	227065
Lithium	*	0.0030		**0.0072**	mg/L	5	08/14/2024 23:22	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:22	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:22	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:38	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 08/12/2024 11:59

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	08/12/2024 11:59	R352005
Depth to water	*	-5.00		**15.04**	ft	1	08/12/2024 11:59	R352005
Depth to water from measuring point	*	0		**17.34**	ft	1	08/12/2024 11:59	R352005
Elevation of groundwater surface	*	0		**566.56**	ft	1	08/12/2024 11:59	R352005
Measuring Point Elevation	*	0		**583.90**	ft	1	08/12/2024 11:59	R352005
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	08/12/2024 11:59	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.5**	NTU	1	08/12/2024 11:59	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	08/12/2024 11:59	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.07**		1	08/12/2024 11:59	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**767**	umhos/cm @25C	1	08/12/2024 11:59	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**422**	mg/L	1	08/16/2024 9:56	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		**63**	mg/L	2	08/20/2024 12:34	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 9:44	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**8**	mg/L	1	08/20/2024 12:29	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0521**	mg/L	1	08/14/2024 17:23	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:23	227065
Boron	NELAP	0.0200		**0.0339**	mg/L	1	08/14/2024 17:23	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:23	227065
Calcium	NELAP	0.100		**96.3**	mg/L	1	08/14/2024 17:23	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:23	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:23	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:23	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:23	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:10	227065
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:12	227065
Lithium	*	0.0030		**0.0062**	mg/L	5	08/14/2024 23:12	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:12	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:12	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:40	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	08/12/2024 10:50	R352005
Depth to water	*	-5.00		**7.33**	ft	1	08/12/2024 10:50	R352005
Depth to water from measuring point	*	0		**9.75**	ft	1	08/12/2024 10:50	R352005
Elevation of groundwater surface	*	0		**528.07**	ft	1	08/12/2024 10:50	R352005
Measuring Point Elevation	*	0		**537.82**	ft	1	08/12/2024 10:50	R352005
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	08/12/2024 10:50	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	08/12/2024 10:50	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	08/12/2024 10:50	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.16**		1	08/12/2024 10:50	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**723**	umhos/cm @25C	1	08/12/2024 10:50	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**396**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10	S	**11**	mg/L	1	08/20/2024 12:40	R352032
Matrix spike did not recover within control limits. Results verify by dilution.								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.56**	mg/L	1	08/19/2024 9:46	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**37**	mg/L	1	08/20/2024 12:39	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.152**	mg/L	1	08/14/2024 17:24	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:24	227065
Boron	NELAP	0.0200		**0.250**	mg/L	1	08/14/2024 17:24	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:24	227065
Calcium	NELAP	0.100		**65.6**	mg/L	1	08/14/2024 17:24	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:24	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:24	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:24	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:24	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 10:16	227065
Arsenic	NELAP	0.0010		**0.0074**	mg/L	5	08/14/2024 23:17	227065
Lithium	*	0.0030		**0.0098**	mg/L	5	08/14/2024 23:17	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:17	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:17	227065
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:43	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 08/12/2024 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	08/12/2024 13:52	R352005
Depth to water	*	-5.00		**9.36**	ft	1	08/12/2024 13:52	R352005
Depth to water from measuring point	*	0		**12.02**	ft	1	08/12/2024 13:52	R352005
Elevation of groundwater surface	*	0		**527.00**	ft	1	08/12/2024 13:52	R352005
Measuring Point Elevation	*	0		**539.02**	ft	1	08/12/2024 13:52	R352005
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	08/12/2024 13:52	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**19**	NTU	1	08/12/2024 13:52	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.0**	°F	1	08/12/2024 13:52	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.20**		1	08/12/2024 13:52	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**733**	umhos/cm @25C	1	08/12/2024 13:52	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**386**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**14**	mg/L	1	08/20/2024 13:17	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.46**	mg/L	1	08/19/2024 9:47	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**50**	mg/L	1	08/20/2024 13:17	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.108**	mg/L	1	08/14/2024 17:26	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:26	227065
Boron	NELAP	0.0200		**0.244**	mg/L	1	08/14/2024 17:26	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:26	227065
Calcium	NELAP	0.100		**59.5**	mg/L	1	08/14/2024 17:26	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:26	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:26	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:26	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:26	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0016**	mg/L	5	08/15/2024 11:01	227065
Arsenic	NELAP	0.0010		**0.0438**	mg/L	5	08/14/2024 23:59	227065
Lithium	*	0.0030		**0.0063**	mg/L	5	08/15/2024 11:01	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2024 23:59	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2024 23:59	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:45	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 08/13/2024 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	08/13/2024 11:06	R352005
Depth to water	*	-5.00		**4.07**	ft	1	08/13/2024 11:06	R352005
Depth to water from measuring point	*	0		**6.97**	ft	1	08/13/2024 11:06	R352005
Elevation of groundwater surface	*	0		**530.23**	ft	1	08/13/2024 11:06	R352005
Measuring Point Elevation	*	0		**537.20**	ft	1	08/13/2024 11:06	R352005
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	08/13/2024 11:06	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**34**	NTU	1	08/13/2024 11:06	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.7**	°F	1	08/13/2024 11:06	R352005
SW-846 9040B								
pH, Field	*	1.00		**7.03**		1	08/13/2024 11:06	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1000**	umhos/cm @25C	1	08/13/2024 11:06	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**526**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	08/20/2024 13:25	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.33**	mg/L	1	08/19/2024 9:49	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**35**	mg/L	1	08/20/2024 13:25	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.407**	mg/L	1	08/15/2024 15:55	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:55	227124
Boron	NELAP	0.0200		**0.0855**	mg/L	1	08/15/2024 15:55	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:55	227124
Calcium	NELAP	0.100		**89.5**	mg/L	1	08/15/2024 15:55	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:55	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:55	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:55	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:55	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:01	227124
Arsenic	NELAP	0.0010		**0.0414**	mg/L	5	08/15/2024 14:01	227124
Lithium	*	0.0030		**0.0075**	mg/L	5	08/15/2024 14:01	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:01	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:01	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:13	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 08/12/2024 14:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	08/12/2024 14:21	R352005
Depth to water	*	-5.00		**10.79**	ft	1	08/12/2024 14:21	R352005
Depth to water from measuring point	*	0		**13.89**	ft	1	08/12/2024 14:21	R352005
Elevation of groundwater surface	*	0		**526.41**	ft	1	08/12/2024 14:21	R352005
Measuring Point Elevation	*	0		**540.30**	ft	1	08/12/2024 14:21	R352005
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	08/12/2024 14:21	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**36**	NTU	1	08/12/2024 14:21	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.6**	°F	1	08/12/2024 14:21	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.89**		1	08/12/2024 14:21	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	umhos/cm @25C	1	08/12/2024 14:21	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**558**	mg/L	1	08/16/2024 9:57	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**25**	mg/L	1	08/20/2024 13:33	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.26**	mg/L	1	08/19/2024 9:51	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**29**	mg/L	1	08/20/2024 13:33	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.405**	mg/L	1	08/14/2024 17:35	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:35	227065
Boron	NELAP	0.0200		**0.0979**	mg/L	1	08/14/2024 17:35	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:35	227065
Calcium	NELAP	0.100		**103**	mg/L	1	08/14/2024 17:35	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:35	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:35	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:35	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:35	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0017**	mg/L	5	08/15/2024 11:06	227065
Arsenic	NELAP	0.0010		**0.0028**	mg/L	5	08/15/2024 0:04	227065
Lithium	*	0.0030		**0.0069**	mg/L	5	08/15/2024 11:06	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:04	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:04	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:56	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 08/12/2024 14:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 08/13/2024 10:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	08/13/2024 10:43	R352005
Depth to water	*	-5.00		**2.29**	ft	1	08/13/2024 10:43	R352005
Depth to water from measuring point	*	0		**5.39**	ft	1	08/13/2024 10:43	R352005
Elevation of groundwater surface	*	0		**532.11**	ft	1	08/13/2024 10:43	R352005
Measuring Point Elevation	*	0		**537.50**	ft	1	08/13/2024 10:43	R352005
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	08/13/2024 10:43	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.1**	NTU	1	08/13/2024 10:43	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.7**	°F	1	08/13/2024 10:43	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.53**		1	08/13/2024 10:43	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1230**	umhos/cm @25C	1	08/13/2024 10:43	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**796**	mg/L	1	08/16/2024 10:20	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**108**	mg/L	5	08/20/2024 13:59	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 9:53	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**30**	mg/L	1	08/20/2024 13:54	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.638**	mg/L	1	08/15/2024 15:56	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:56	227124
Boron	NELAP	0.0200		**3.90**	mg/L	1	08/15/2024 15:56	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:56	227124
Calcium	NELAP	0.100		**133**	mg/L	1	08/15/2024 15:56	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:56	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:56	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Lithium	*	0.0030		**0.0094**	mg/L	5	08/15/2024 14:07	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:07	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:07	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:15	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	08/12/2024 12:07	R352005
Depth to water	*	-5.00		**13.02**	ft	1	08/12/2024 12:07	R352005
Depth to water from measuring point	*	0		**15.82**	ft	1	08/12/2024 12:07	R352005
Elevation of groundwater surface	*	0		**522.28**	ft	1	08/12/2024 12:07	R352005
Measuring Point Elevation	*	0		**538.10**	ft	1	08/12/2024 12:07	R352005
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	08/12/2024 12:07	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.4**	NTU	1	08/12/2024 12:07	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.1**	°F	1	08/12/2024 12:07	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.44**		1	08/12/2024 12:07	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**975**	umhos/cm @25C	1	08/12/2024 12:07	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**596**	mg/L	1	08/16/2024 10:21	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**77**	mg/L	5	08/20/2024 14:07	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.21**	mg/L	1	08/19/2024 9:54	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**90**	mg/L	5	08/20/2024 14:07	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.110**	mg/L	1	08/14/2024 17:37	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:37	227065
Boron	NELAP	0.0200		**0.211**	mg/L	1	08/14/2024 17:37	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:37	227065
Calcium	NELAP	0.100		**126**	mg/L	1	08/14/2024 17:37	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:37	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:37	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:37	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:37	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 11:12	227065
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:10	227065
Lithium	*	0.0030		**0.0044**	mg/L	5	08/15/2024 11:12	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:10	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:10	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 12:58	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	08/12/2024 13:02	R352005
Depth to water	*	-5.00		**15.14**	ft	1	08/12/2024 13:02	R352005
Depth to water from measuring point	*	0		**18.04**	ft	1	08/12/2024 13:02	R352005
Elevation of groundwater surface	*	0		**522.66**	ft	1	08/12/2024 13:02	R352005
Measuring Point Elevation	*	0		**540.70**	ft	1	08/12/2024 13:02	R352005
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	08/12/2024 13:02	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**26**	NTU	1	08/12/2024 13:02	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.6**	°F	1	08/12/2024 13:02	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.43**		1	08/12/2024 13:02	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1870**	umhos/cm @25C	1	08/12/2024 13:02	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1670**	mg/L	1	08/16/2024 10:22	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**612**	mg/L	20	08/20/2024 14:15	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.19**	mg/L	1	08/19/2024 10:04	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**136**	mg/L	5	08/20/2024 14:10	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0515**	mg/L	1	08/14/2024 17:38	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:38	227065
Boron	NELAP	0.0200		**0.0241**	mg/L	1	08/14/2024 17:38	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:38	227065
Calcium	NELAP	0.100		**258**	mg/L	1	08/14/2024 17:38	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:38	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:38	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:38	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:38	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 11:17	227065
Arsenic	NELAP	0.0010		**0.0015**	mg/L	5	08/15/2024 0:15	227065
Lithium	*	0.0030		**0.0077**	mg/L	5	08/15/2024 11:17	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:15	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:15	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 13:01	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	08/12/2024 13:28	R352005
Depth to water	*	-5.00		**14.80**	ft	1	08/12/2024 13:28	R352005
Depth to water from measuring point	*	0		**18.20**	ft	1	08/12/2024 13:28	R352005
Elevation of groundwater surface	*	0		**523.80**	ft	1	08/12/2024 13:28	R352005
Measuring Point Elevation	*	0		**542.00**	ft	1	08/12/2024 13:28	R352005
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	08/12/2024 13:28	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.6**	NTU	1	08/12/2024 13:28	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.4**	°F	1	08/12/2024 13:28	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.59**		1	08/12/2024 13:28	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**816**	umhos/cm @25C	1	08/12/2024 13:28	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**560**	mg/L	1	08/16/2024 10:22	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**135**	mg/L	5	08/22/2024 10:01	R352204
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	08/19/2024 10:06	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**27**	mg/L	1	08/20/2024 14:18	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.127**	mg/L	1	08/14/2024 17:40	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:40	227065
Boron	NELAP	0.0200		**0.0357**	mg/L	1	08/14/2024 17:40	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:40	227065
Calcium	NELAP	0.100		**106**	mg/L	1	08/14/2024 17:40	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:40	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:40	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:40	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:40	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 11:23	227065
Arsenic	NELAP	0.0010		**0.0029**	mg/L	5	08/15/2024 0:20	227065
Lithium	*	0.0030		**0.0124**	mg/L	5	08/15/2024 11:23	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:20	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:20	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 13:03	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 08/12/2024 13:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 08/13/2024 11:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	08/13/2024 11:19	R352005
Depth to water	*	-5.00		**0.57**	ft	1	08/13/2024 11:19	R352005
Depth to water from measuring point	*	0		**3.37**	ft	1	08/13/2024 11:19	R352005
Elevation of groundwater surface	*	0		**536.23**	ft	1	08/13/2024 11:19	R352005
Measuring Point Elevation	*	0		**539.60**	ft	1	08/13/2024 11:19	R352005
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	08/13/2024 11:19	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	08/13/2024 11:19	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**62.0**	°F	1	08/13/2024 11:19	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	08/13/2024 11:19	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1760**	umhos/cm @25C	1	08/13/2024 11:19	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1610**	mg/L	1	08/16/2024 10:22	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		**821**	mg/L	20	08/20/2024 14:45	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.28**	mg/L	1	08/19/2024 10:07	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	20		**92**	mg/L	5	08/20/2024 14:26	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0371**	mg/L	1	08/15/2024 15:56	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 15:56	227124
Boron	NELAP	0.200		**20.0**	mg/L	10	08/16/2024 15:46	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 15:56	227124
Calcium	NELAP	0.100		**237**	mg/L	1	08/15/2024 15:56	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 15:56	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 15:56	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 15:56	227124
Sample result for B exceeds 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:12	227124
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	08/16/2024 11:25	227124
Lithium	*	0.0030		**0.0078**	mg/L	5	08/15/2024 14:12	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:12	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:12	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:17	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-016
Client Sample ID: T-1
Matrix: GROUNDWATER
Collection Date: 08/12/2024 14:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	08/12/2024 14:18	R352005
Depth to water	*	-5.00		**14.17**	ft	1	08/12/2024 14:18	R352005
Depth to water from measuring point	*	0		**14.50**	ft	1	08/12/2024 14:18	R352005
Elevation of groundwater surface	*	0		**521.15**	ft	1	08/12/2024 14:18	R352005
Measuring Point Elevation	*	0		**535.65**	ft	1	08/12/2024 14:18	R352005
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	08/12/2024 14:18	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**150**	NTU	1	08/12/2024 14:18	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**60.4**	°F	1	08/12/2024 14:18	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.51**		1	08/12/2024 14:18	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1590**	umhos/cm @25C	1	08/12/2024 14:18	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1020**	mg/L	1	08/16/2024 11:32	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**236**	mg/L	5	08/20/2024 14:53	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	08/19/2024 10:09	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	40		**259**	mg/L	10	08/22/2024 9:16	R352158
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.118**	mg/L	1	08/14/2024 17:41	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:41	227065
Boron	NELAP	0.0200		**0.141**	mg/L	1	08/14/2024 17:41	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:41	227065
Calcium	NELAP	0.100		**183**	mg/L	1	08/14/2024 17:41	227065
Chromium	NELAP	0.0050		**0.0096**	mg/L	1	08/14/2024 17:41	227065
Cobalt	NELAP	0.0050		**0.0063**	mg/L	1	08/14/2024 17:41	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:41	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:41	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 11:28	227065
Arsenic	NELAP	0.0010		**0.0048**	mg/L	5	08/15/2024 0:25	227065
Lithium	*	0.0030		**0.0266**	mg/L	5	08/15/2024 11:28	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:25	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:25	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 13:05	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-016
Client Sample ID: T-1
Matrix: GROUNDWATER
Collection Date: 08/12/2024 14:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-017
Client Sample ID: T-2
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	08/12/2024 12:32	R352005
Depth to water	*	-5.00		**23.35**	ft	1	08/12/2024 12:32	R352005
Depth to water from measuring point	*	0		**25.75**	ft	1	08/12/2024 12:32	R352005
Elevation of groundwater surface	*	0		**523.87**	ft	1	08/12/2024 12:32	R352005
Measuring Point Elevation	*	0		**549.62**	ft	1	08/12/2024 12:32	R352005
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	08/12/2024 12:32	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**14**	NTU	1	08/12/2024 12:32	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.7**	°F	1	08/12/2024 12:32	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.37**		1	08/12/2024 12:32	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1910**	umhos/cm @25C	1	08/12/2024 12:32	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1430**	mg/L	1	08/16/2024 11:33	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**181**	mg/L	5	08/20/2024 15:01	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.23**	mg/L	1	08/19/2024 10:11	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	80		**447**	mg/L	20	08/22/2024 9:19	R352158
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.246**	mg/L	1	08/14/2024 17:43	227065
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2024 17:43	227065
Boron	NELAP	0.0200		**0.0718**	mg/L	1	08/14/2024 17:43	227065
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2024 17:43	227065
Calcium	NELAP	0.100		**218**	mg/L	1	08/14/2024 17:43	227065
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:43	227065
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2024 17:43	227065
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2024 17:43	227065
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2024 17:43	227065
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 11:34	227065
Arsenic	NELAP	0.0010		**0.0053**	mg/L	5	08/15/2024 0:30	227065
Lithium	*	0.0030		**0.0394**	mg/L	5	08/15/2024 11:34	227065
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 0:30	227065
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 0:30	227065
CCV recovered outside the upper control limits for Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/14/2024 13:07	227054
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-017
Client Sample ID: T-2
Matrix: GROUNDWATER
Collection Date: 08/12/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-018
Client Sample ID: T-4
Matrix: GROUNDWATER
Collection Date: 08/13/2024 12:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	08/13/2024 12:20	R352005
Depth to water	*	-5.00		**16.28**	ft	1	08/13/2024 12:20	R352005
Depth to water from measuring point	*	0		**18.66**	ft	1	08/13/2024 12:20	R352005
Elevation of groundwater surface	*	0		**530.28**	ft	1	08/13/2024 12:20	R352005
Measuring Point Elevation	*	0		**548.94**	ft	1	08/13/2024 12:20	R352005
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	08/13/2024 12:20	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**24**	NTU	1	08/13/2024 12:20	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.5**	°F	1	08/13/2024 12:20	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.68**		1	08/13/2024 12:20	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**474**	umhos/cm @25C	1	08/13/2024 12:20	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**382**	mg/L	1	08/16/2024 11:33	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		**100**	mg/L	5	08/20/2024 15:09	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 10:13	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	08/20/2024 15:03	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0562**	mg/L	1	08/15/2024 16:01	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 16:01	227124
Boron	NELAP	0.0200		**0.0537**	mg/L	1	08/15/2024 16:01	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 16:01	227124
Calcium	NELAP	0.100		**77.3**	mg/L	1	08/15/2024 16:01	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:01	227124
Cobalt	NELAP	0.0050		**0.0050**	mg/L	1	08/15/2024 16:01	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 16:01	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 16:01	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:18	227124
Arsenic	NELAP	0.0010		**0.0055**	mg/L	5	08/15/2024 14:18	227124
Lithium	*	0.0030		**0.0164**	mg/L	5	08/15/2024 14:18	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:18	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:18	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:19	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-019
Client Sample ID: T-5
Matrix: GROUNDWATER
Collection Date: 08/13/2024 11:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	08/13/2024 11:32	R352005
Depth to water	*	-5.00		**8.19**	ft	1	08/13/2024 11:32	R352005
Depth to water from measuring point	*	0		**10.70**	ft	1	08/13/2024 11:32	R352005
Elevation of groundwater surface	*	0		**529.96**	ft	1	08/13/2024 11:32	R352005
Measuring Point Elevation	*	0		**540.66**	ft	1	08/13/2024 11:32	R352005
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	08/13/2024 11:32	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**1.4**	NTU	1	08/13/2024 11:32	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.1**	°F	1	08/13/2024 11:32	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	08/13/2024 11:32	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**418**	umhos/cm @25C	1	08/13/2024 11:32	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**338**	mg/L	1	08/16/2024 11:33	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**40**	mg/L	1	08/20/2024 15:11	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.22**	mg/L	1	08/19/2024 10:15	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**< 4**	mg/L	1	08/20/2024 15:11	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0538**	mg/L	1	08/15/2024 16:01	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 16:01	227124
Boron	NELAP	0.0200		**0.0843**	mg/L	1	08/15/2024 16:01	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 16:01	227124
Calcium	NELAP	0.100		**64.6**	mg/L	1	08/15/2024 16:01	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:01	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:01	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 16:01	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 16:01	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:23	227124
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:23	227124
Lithium	*	0.0030		**0.0095**	mg/L	5	08/15/2024 14:23	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:23	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:23	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:22	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Client: City Water, Light & Power
Work Order: 24080242
Client Project: Ash Pond Monitoring Wells
Report Date: 18-Sep-24
Lab ID: 24080242-020
Client Sample ID: T-6
Matrix: GROUNDWATER
Collection Date: 08/13/2024 10:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	08/13/2024 10:44	R352005
Depth to water	*	-5.00		**7.52**	ft	1	08/13/2024 10:44	R352005
Depth to water from measuring point	*	0		**9.88**	ft	1	08/13/2024 10:44	R352005
Elevation of groundwater surface	*	0		**528.44**	ft	1	08/13/2024 10:44	R352005
Measuring Point Elevation	*	0		**538.32**	ft	1	08/13/2024 10:44	R352005
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	08/13/2024 10:44	R352005
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	08/13/2024 10:44	R352005
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.5**	°F	1	08/13/2024 10:44	R352005
SW-846 9040B								
pH, Field	*	1.00		**6.77**		1	08/13/2024 10:44	R352005
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**674**	umhos/cm @25C	1	08/13/2024 10:44	R352005
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**494**	mg/L	1	08/16/2024 11:33	R351892
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		**11**	mg/L	1	08/20/2024 15:19	R352032
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		**0.32**	mg/L	1	08/19/2024 11:01	R351930
SW-846 9251 (TOTAL)								
Chloride	NELAP	4		**24**	mg/L	1	08/20/2024 15:19	R352062
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.323**	mg/L	1	08/15/2024 16:02	227124
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/15/2024 16:02	227124
Boron	NELAP	0.0200		**0.214**	mg/L	1	08/15/2024 16:02	227124
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/15/2024 16:02	227124
Calcium	NELAP	0.100		**84.3**	mg/L	1	08/15/2024 16:02	227124
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:02	227124
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/15/2024 16:02	227124
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/15/2024 16:02	227124
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/15/2024 16:02	227124
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:29	227124
Arsenic	NELAP	0.0010		**0.0108**	mg/L	5	08/15/2024 14:29	227124
Lithium	*	0.0030		**0.0149**	mg/L	5	08/15/2024 14:29	227124
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/15/2024 14:29	227124
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/15/2024 14:29	227124
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/15/2024 16:24	227118
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360
Radium-228	*	0		**See Attached**	pci/L	1	09/16/2024 0:00	R353360

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24080242
Report Date: 18-Sep-24

Carrier: Justin Colp

Received By: PRS

Completed by: Amber Dilallo
On: 13-Aug-24

Reviewed by: Shelly A. Hennessy
On: 27-Aug-24

Pages to follow: Chain of custody 4 Extra pages included 60

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	12.1
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.					
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑		
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑		
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐		
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑		

Any No responses must be detailed below or on the COC.

Samples were received on 8/12/24 at 1635 on ice [12.1C - LTG#9]. pH strip #96651. - amberdilallo - 8/13/2024 8:19:55 AM

Samples were received on 8/13/24 at 1427 on ice [3.7C - LTG#5]. pH strip #96651. - amberdilallo - 8/13/2024 3:24:03 PM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 12.1 °c LTG-9
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: pH 9&5l PS8713

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring
*Damaged - to be collected @ later date SH 8/14/24

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080242-001	RW-3	8.12.24 1018	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	AP-1	8.12.24 1119	Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	AP-2	8.12.24 1304	Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	AP-3 *		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	AP-4	8.12.24 1235	Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	AP-5	8.12.24 1159	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	AP-6	8.12.24 1050	Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	AP-7	8.12.24 1352	Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AP-8		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AP-9	8.12.24 1421	Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	AP-10		Groundwater	1	2								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	8.12.24 1635	Paul Gray	8/12/24 1635

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24081242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Joshn Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24081242-11	AP-11	8-12-24 1207	Groundwater	1	2								✓	✓	✓	✓	✓	✓
013	AP-12	1302	Groundwater	1	2								✓	✓	✓	✓	✓	✓
014	AP-13	1328	Groundwater	1	2								✓	✓	✓	✓	✓	✓
015	AP-14		Groundwater	1	2								✓	✓	✓	✓	✓	✓
016	T-1	1418	Groundwater	1	2								✓	✓	✓	✓	✓	✓
017	T-2	1232	Groundwater	1	2								✓	✓	✓	✓	✓	✓
018	T-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
019	T-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
020	T-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
J Colp	8.12.24 1635	Paul Eaty	8/12/24 1635

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 3.7 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: pH/QUAL SI PS 8/13

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity								
24080242-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
009	AP-8	8.13.24 1106	Groundwater	1	2								✓	✓	✓	✓	✓	✓								
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓								
011	AP-10	8-13-24 1043	Groundwater	1	2								✓	✓	✓	✓	✓	✓								

Relinquished By	Date/Time	Received By	Date/Time
	8-13-24 1427		8/13/24 1427

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24080242

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24080242 01L	AP-11		Groundwater	1	2								✓	✓	✓	✓	✓	✓
013	AP-12		Groundwater	1	2								✓	✓	✓	✓	✓	✓
014	AP-13		Groundwater	1	2								✓	✓	✓	✓	✓	✓
015	AP-14	8-13-24 1119	Groundwater	1	2								✓	✓	✓	✓	✓	✓
016	T-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
017	T-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
018	T-4	8.13.24 1220	Groundwater	1	2								✓	✓	✓	✓	✓	✓
019	T-5	8.13.24 1132	Groundwater	1	2								✓	✓	✓	✓	✓	✓
020	T-6	8.13.24 1044	Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	8-13-24 1427	[signature]	8/13/24 1427

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Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** RW-3
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 10:01
Static Water Level: 11.31 feet below TOC
Total Depth: 44.01 feet below TOC
Water Column: 32.70 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 32.7 ft. x 44.01 = 0.97 L x 3 Vol. = 2.91 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.1
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:03	0.0	200	purge start time						
10:06	0.6	↓	7.20	764	60.2	2.13	-61.3	7.69	
10:09	1.3		7.22	745	60.0	1.17	-110.3	14.43	
10:12	1.9		7.23	707	59.0	0.99	-122.2	27.14	
10:15	2.5		7.22	699	59.8	0.96	-124.7	35.75	
10:18	3.1		7.23	698	60.3	0.95	-125.9	38.75	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 10:18
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.23 pH 698 Spec. Cond. 60.3 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 11.46 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-1
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 11:02
Static Water Level: 11.34 feet below TOC
Total Depth: 31.08 feet below TOC
Water Column: 19.74 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 19.74 ft. x 31.08 = 0.68 L x 3 Vol. = 2.04 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.0
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:03	0.0	188	purge start time						
11:07	0.7	↓	6.63	1,708	61.1	1.95	-1.0	14.66	
11:10	1.3		6.68	1,770	60.7	1.19	-43.0	21.01	
11:13	1.9		6.70	1,817	60.7	0.97	-63.7	14.91	
11:16	2.4		6.70	1,859	60.4	0.87	-74.3	13.60	
11:19	3.0		6.70	1,884	60.3	0.84	-80.1	8.56	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 11:19
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.70 pH 1,884 Spec. Cond. 60.3 Temp
Field Filtered: No Filter Type:
Water Level: 11.50 feet below TOC Drawdown: 0.16 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-2
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 77 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:50
Static Water Level: 8.49 feet below TOC
Total Depth: 21.33 feet below TOC
Water Column: 12.84 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.84 ft. x 21.33 = 0.47 L x 3 Vol. = 1.41 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 2.5
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:51	0.0	188	purge start time						
12:55	0.8	↓	6.58	1,506	62.2	1.42	18.8	59.88	
12:58	1.4		6.58	1,509	62.4	1.19	19.5	42.69	
13:01	1.9		6.58	1,509	62.4	1.15	20.0	35.14	
13:04	2.5		6.58	1,510	62.3	1.08	20.0	31.61	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 13:04
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.58 pH 1,510 Spec. Cond. 62.3 Temp
Field Filtered: No Filter Type:
Water Level: 8.73 feet below TOC Drawdown: 0.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-3
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: °F Wind Direction: N S E W (circle two if needed)
Precipitation: None Light Heavy Sky: Cloudy Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Damaged			
Casing	Damaged	Protective Casing		
Protective Casing	Damaged	Well		
Reference Mark/Identification	Damaged			

Groundwater Level Measurements

Date/Time Measured: Static Water Level: feet below TOC
Total Depth: feet below TOC
Water Column: feet

Purging Activities

Purged By: Purge Date:
Purge Method: Well Diameter: 2"
Purge Volume Calculation (L):
Actual Purge Volume (L):
Physical appearance of purge water: Odor: Color:

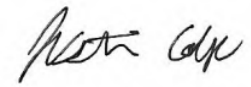
Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
			purge start time						

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: feet below TOC Drawdown: feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Well damaged by vehicle, notified by onsite personell of planned repair/redrill



Form Completed By: **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-4
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:13
Static Water Level: 10.83 feet below TOC
Total Depth: 60.41 feet below TOC
Water Column: 49.58 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 49.58 ft. x 60.41 = 1.33 L x 3 Vol. = 3.99 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 4.1
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:14	0.0	191	purge start time						
12:23	1.8	↓	6.96	933	65.6	1.45	-83.5	21.47	
12:26	2.3		6.96	935	65.5	1.10	-94.3	19.37	
12:29	2.9		6.97	935	65.3	0.98	-100.2	22.86	
12:32	3.5		6.97	935	65.2	0.91	-103.8	21.48	
12:35	4.1		6.97	935	65.1	0.89	-106.4	34.41	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 12:35
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 6.97 pH 935 Spec. Cond. 65.1 Temp
Field Filtered: No Filter Type:
Water Level: 11.00 feet below TOC Drawdown: 0.17 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-5
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 11:40
Static Water Level: 17.34 feet below TOC
Total Depth: 31.27 feet below TOC
Water Column: 13.93 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 13.93 ft. x 31.27 = 0.69 L x 3 Vol. = 2.07 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.5
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:41	0.0	191	purge start time						
11:47	1.2	↓	7.13	762	59.3	2.92	17.7	3.19	
11:50	1.8		7.11	762	59.2	2.28	18.9	3.11	
11:53	2.3		7.09	765	58.9	2.08	22.6	2.64	
11:56	2.9		7.08	767	59.0	2.01	26.9	2.39	
11:59	3.5		7.07	767	59.0	1.98	30.9	1.46	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 11:59
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.07 pH 767 Spec. Cond. 59.0 Temp
Field Filtered: No Filter Type:
Water Level: 17.62 feet below TOC Drawdown: 0.28 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-6
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 75 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 10:33
Static Water Level: 9.75 feet below TOC
Total Depth: 39.62 feet below TOC
Water Column: 29.87 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 29.87 ft. x 39.62 = 0.87 L x 3 Vol. = 2.61 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.1
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:35	0.0	200	purge start time						
10:38	0.6	↓	7.16	728	59.9	1.90	-6.1	5.72	
10:41	1.2		7.17	723	59.5	1.24	-36.0	10.76	
10:44	1.9		7.16	723	59.4	1.03	-39.9	15.00	
10:47	2.4		7.16	722	59.2	0.94	-39.9	20.97	
10:50	3.1		7.16	723	59.2	0.89	-39.3	29.64	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 10:50
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.16 pH 723 Spec. Cond. 59.2 Temp
Field Filtered: No Filter Type:
Water Level: 9.79 feet below TOC Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-7
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 77 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 13:36
Static Water Level: 12.02 feet below TOC
Total Depth: 42.52 feet below TOC
Water Column: 30.50 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/12/2024
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 30.5 ft. x 42.52 = 0.94 L x 3 Vol. = 2.82 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.0
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:37	0.0	200	purge start time						
13:40	0.6	↓	7.29	742	59.3	1.59	-37.2	16.71	
13:43	1.2		7.25	750	58.4	1.11	-89.9	37.06	
13:46	1.8		7.23	738	58.2	0.98	-95.0	35.04	
13:49	2.4		7.21	732	58.1	0.92	-95.6	27.20	
13:52	3.0		7.20	733	58.0	0.88	-95.5	19.12	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/12/2024 13:52
Sample Method: Low-Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.20 pH 733 Spec. Cond. 58.0 Temp
Field Filtered: No Filter Type:
Water Level: 12.23 feet below TOC Drawdown: 0.21 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** AP-8
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/13/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: N S E (W) (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 10:51
Static Water Level: 6.97 feet below TOC
Total Depth: 39.60 feet below TOC
Water Column: 32.63 feet

Purging Activities

Purged By: Justin Colp Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 32.63 ft. x 39.6 = 0.87 L x 3 Vol. = 2.61 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.2
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:52	0.0	214	purge start time						
10:54	0.6	↓	7.07	1,008	60.8	1.60	-83.4	18.46	
10:57	1.3		7.06	1,005	60.7	1.06	-97.5	19.65	
11:00	1.9		7.05	1,003	59.0	0.86	-104.6	32.94	
11:03	2.6		7.04	1,002	58.9	0.79	-107.9	30.61	
11:06	3.2		7.03	1,003	60.7	0.76	-109.9	33.73	

Sampling Activities

Sampled By: Justin Colp Sample Date/Time: 8/13/2024 11:06
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.03 pH 1,003 Spec. Cond. 60.7 Temp
Field Filtered: No Filter Type:
Water Level: 8.19 feet below TOC Drawdown: 1.22 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-9
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 77 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: None (Light) Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 14:03
Static Water Level: 13.89 feet below TOC
Total Depth: 39.60 feet below TOC
Water Column: 25.71 feet

Purging Activities

Purged By: Justin Colp — Purge Date: 8/12/2024
Purge Method: Submersible Pump — Well Diameter: 2"
Purge Volume Calculation (L): 25.71 ft. x 39.6 = 0.87 L x 3 Vol. = 2.61 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.1
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:05	0.0	188	purge start time						
14:09	0.8	↓	6.88	1,071	60.6	2.86	-70.9	25.18	
14:12	1.4		6.88	1,073	60.7	2.38	-80.8	28.51	
14:15	2.0		6.89	1,070	60.5	1.99	-85.2	31.92	
14:18	2.5		6.89	1,071	61.1	1.87	-87.9	35.86	
14:21	3.1		6.89	1,072	61.6	1.76	-89.8	35.89	

Sampling Activities

Sampled By: Justin Colp — Sample Date/Time: 8/12/2024 14:21
Sample Method: Low-Flow — Sample Equipment: Submersible Pump
Sample Parameters: 6.89 pH — 1,072 Spec. Cond. — 61.6 Temp
Field Filtered: No — Filter Type:
Water Level: 14.20 feet below TOC — Drawdown: 0.31 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Justin Colp — **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-10
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/13/2024

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.
Name: — Affiliation:

Weather Conditions

Temp: 77 °F — Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy — Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 10:23
Static Water Level: 5.39 feet below TOC
Total Depth: 38.07 feet below TOC
Water Column: 32.68 feet

Purging Activities

Purged By: Brett Gillihan — Purge Date: 8/13/2024
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 32.68 ft. x 38.07 = 0.84 L x 3 Vol. = 2.52 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 3.6
Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:23	0.0	175	purge start time						
10:31	1.5	↓	6.55	1,224	61.9	1.99	-98.4	4.31	
10:34	2.0		6.54	1,220	62.2	1.65	-100.6	4.00	
10:37	2.6		6.54	1,224	63.0	1.77	-100.0	3.62	
10:40	3.1		6.53	1,226	62.9	1.62	-100.9	3.48	
10:43	3.6		6.53	1,227	62.7	1.37	-101.9	3.12	

Sampling Activities

Sampled By: Brett Gillihan — Sample Date/Time: 8/13/2024 10:43
Sample Method: Low-Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.53 pH — 1,227 Spec. Cond. — 62.7 Temp
Field Filtered: No — Filter Type:
Water Level: 5.88 feet below TOC — Drawdown: 0.49 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Brett Gillihan — **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-11
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 11:50
Static Water Level: 15.82 feet below TOC
Total Depth: 22.95 feet below TOC
Water Column: 7.13 feet

Purging Activities

Purged By: Brett Gillihan Purge Date: 8/12/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 7.13 ft. x 22.95 = 0.5 L x 3 Vol. = 1.5 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 2.5
Physical appearance of purge water: Clear Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:50	0.0	147	purge start time						
11:55	0.7	↓	6.47	977	60.1	1.91	-82.5	5.35	
11:58	1.2		6.47	985	60.4	1.60	-99.2	4.55	
12:01	1.6		6.46	981	60.4	1.50	-96.2	3.62	
12:04	2.1		6.45	978	60.3	1.41	-89.8	3.28	
12:07	2.5		6.44	975	59.1	1.18	-87.7	3.37	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/12/2024 12:07
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.44 pH 975 Spec. Cond. 59.1 Temp
Field Filtered: No Filter Type:
Water Level: 16.11 feet below TOC Drawdown: 0.29 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Brett Gillihan **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-12
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:37
Static Water Level: 18.04 feet below TOC
Total Depth: 30.40 feet below TOC
Water Column: 12.36 feet

Purging Activities

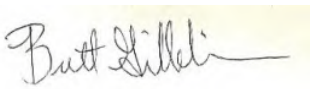
Purged By: Brett Gillihan Purge Date: 8/12/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.36 ft. x 30.4 = 0.67 L x 3 Vol. = 2.01 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 5.6
Physical appearance of purge water: Slightly Cloudy Odor: Strong Color: Light gray

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:37	0.0	220	purge start time						
12:50	2.9	↓	6.44	1,864	60.2	2.03	-143.9	61.26	
12:53	3.6		6.44	1,866	60.1	1.73	-150.0	49.69	
12:56	4.2		6.44	1,868	60.0	1.59	-155.2	39.09	
12:59	4.9		6.44	1,865	59.9	1.48	-157.0	31.18	
13:02	5.6		6.43	1,868	59.6	1.41	-154.9	26.30	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/12/2024 13:02
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.43 pH 1,868 Spec. Cond. 59.6 Temp
Field Filtered: No Filter Type:
Water Level: 19.64 feet below TOC Drawdown: 1.60 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-13
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 77 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 13:13
Static Water Level: 18.20 feet below TOC
Total Depth: 31.00 feet below TOC
Water Column: 12.80 feet

Purging Activities

Purged By: Brett Gillihan Purge Date: 8/12/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 12.8 ft. x 31 = 0.68 L x 3 Vol. = 2.04 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 5.1
Physical appearance of purge water: Slightly Cloudy Odor: Moderate Color: Light gray

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:13	0.0	333	purge start time						
13:19	2.1	↓	6.61	812	59.3	1.95	-152.3	15.93	
13:22	3.1		6.60	814	59.4	1.82	-153.1	9.86	
13:25	4.1		6.59	812	59.5	1.71	-156.8	7.20	
13:28	5.1		6.59	816	59.4	1.52	-154.7	6.55	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/12/2024 13:28
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.59 pH 816 Spec. Cond. 59.4 Temp
Field Filtered: No Filter Type:
Water Level: 18.89 feet below TOC Drawdown: 0.69 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Brett Gillihan **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells
Monitoring Point: AP-14
Project Location: Springfield, IL
W.O. Number (s): 24080242
Date (s): 8/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 74 °F Wind Direction: N S E (W) (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 11:00
Static Water Level: 3.37 feet below TOC
Total Depth: 31.20 feet below TOC
Water Column: 27.83 feet

Purging Activities

Purged By: Brett Gillihan Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 27.83 ft. x 31.2 = 0.69 L x 3 Vol. = 2.07 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 6.5
Physical appearance of purge water: Clear Odor: Slight Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:00	0.0	333	purge start time						
11:07	2.5	↓	6.76	1,752	64.9	2.46	-44.5	10.41	
11:10	3.5		6.75	1,754	64.8	2.21	-44.5	13.84	
11:13	4.5		6.77	1,753	62.8	1.90	-45.2	11.14	
11:16	5.5		6.77	1,759	62.3	1.68	-45.8	6.70	
11:19	6.5		6.76	1,761	62.0	1.54	-46.3	10.36	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/13/2024 11:19
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.76 pH 1,761 Spec. Cond. 62.0 Temp
Field Filtered: No Filter Type:
Water Level: 4.12 feet below TOC Drawdown: 0.75 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Form Completed By: Brett Gillihan **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** T-1
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 77 °F Wind Direction: N S E (W) (circle two if needed)
Precipitation: None (Light) Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 13:36
Static Water Level: 14.50 feet below TOC
Total Depth: 22.95 feet below TOC
Water Column: 8.45 feet

Purging Activities

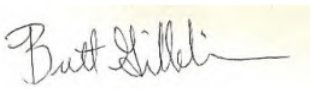
Purged By: Brett Gillihan Purge Date: 8/12/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.45 ft. x 22.95 = 0.5 L x 3 Vol. = 1.5 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 6.6
Physical appearance of purge water: Cloudy Odor: Slight Color: Light brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:36	0.0	155	purge start time						
14:06	4.8	↓	6.54	1,598	62.8	2.06	-55.0	306.95	
14:09	5.2		6.53	1,597	62.8	1.95	-54.3	214.02	
14:12	5.7		6.53	1,601	61.9	1.85	-53.8	198.61	
14:15	6.1		6.52	1,593	60.2	1.51	-53.3	157.00	
14:18	6.6		6.51	1,589	60.4	1.45	-52.0	153.30	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/12/2024 14:18
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.51 pH 1,589 Spec. Cond. 60.4 Temp
Field Filtered: No Filter Type:
Water Level: 16.05 feet below TOC Drawdown: 1.55 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** T-2
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 76 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/12/2024 12:13
Static Water Level: 25.75 feet below TOC
Total Depth: 34.44 feet below TOC
Water Column: 8.69 feet

Purging Activities

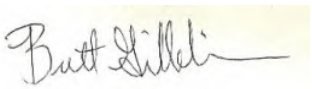
Purged By: Brett Gillihan Purge Date: 8/12/2024
Purge Method: Submersible Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.69 ft. x 34.44 = 0.76 L x 3 Vol. = 2.28 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 4.7
Physical appearance of purge water: Slightly Cloudy Odor: Slight Color: Light gray

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:13	0.0	237	purge start time						
12:20	1.8	↓	6.32	1,995	61.1	1.49	-43.5	36.28	
12:23	2.6		6.34	1,953	61.6	1.22	-45.1	36.47	
12:26	3.3		6.35	1,965	61.6	1.11	-47.3	38.37	
12:29	4.0		6.35	1,966	60.7	1.02	-46.2	24.49	
12:32	4.7		6.37	1,911	59.7	0.94	-45.9	13.62	

Sampling Activities

Sampled By: Brett Gillihan Sample Date/Time: 8/12/2024 12:32
Sample Method: Low-Flow Sample Equipment: Submersible Pump
Sample Parameters: 6.37 pH 1,911 Spec. Cond. 59.7 Temp
Field Filtered: No Filter Type:
Water Level: 27.23 feet below TOC Drawdown: 1.48 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/12/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** T-4
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 11:58
Static Water Level: 18.66 feet below TOC
Total Depth: 27.42 feet below TOC
Water Column: 8.76 feet

Purging Activities

Purged By: Tracy Carroll Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 8.76 ft. x 27.42 = 0.6 L x 3 Vol. = 1.8 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 6.0
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:58	0.0	273	purge start time						
12:08	2.8	↓	6.73	467	59.4	1.09	2.1	54.34	
12:11	3.6		6.67	452	59.4	1.10	18.0	34.58	
12:14	4.4		6.66	467	59.6	1.15	27.5	28.17	
12:17	5.2		6.67	475	59.6	1.12	31.2	26.81	
12:20	6.0		6.68	474	59.5	1.09	33.1	24.43	

Sampling Activities

Sampled By: Tracy Carroll Sample Date/Time: 8/13/2024 12:20
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.68 pH 474 Spec. Cond. 59.5 Temp
Field Filtered: No Filter Type:
Water Level: 19.90 feet below TOC Drawdown: 1.24 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** T-5
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 11:04
Static Water Level: 10.70 feet below TOC
Total Depth: 22.34 feet below TOC
Water Column: 11.64 feet

Purging Activities

Purged By: Tracy Carroll Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 11.64 ft. x 22.34 = 0.49 L x 3 Vol. = 1.47 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 5.0
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:04	0.0	179	purge start time						
11:20	2.9	↓	6.84	419	64.3	1.74	-14.8	2.46	
11:23	3.4		6.84	418	64.3	1.62	-30.4	2.49	
11:26	3.9		6.85	415	63.9	1.49	-38.8	2.28	
11:29	4.5		6.86	415	64.6	1.39	-40.5	1.94	
11:32	5.0		6.86	418	64.1	1.29	-38.9	1.42	

Sampling Activities

Sampled By: Tracy Carroll Sample Date/Time: 8/13/2024 11:32
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.86 pH 418 Spec. Cond. 64.1 Temp
Field Filtered: No Filter Type:
Water Level: 11.48 feet below TOC Drawdown: 0.78 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

Tracy Carroll

Form Completed By: **Date:** 8/13/2024

Field Data Sheet

Project Name: CWLP- Ash Pond Monitoring Wells **Monitoring Point:** T-6
Project Location: Springfield, IL
W.O. Number (s): 24080242 **Date (s):** 8/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: (N) S E W (circle two if needed)
Precipitation: (None) Light Heavy Sky: (Cloudy) Sunny Partly

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Good			

Groundwater Level Measurements

Date/Time Measured: 8/13/2024 10:08
Static Water Level: 9.88 feet below TOC
Total Depth: 43.62 feet below TOC
Water Column: 33.74 feet

Purging Activities

Purged By: Tracy Carroll Purge Date: 8/13/2024
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 33.74 ft. x 43.62 = 0.96 L x 3 Vol. = 2.88 L **Based on 3 water volumes in 3/8" tubing.*
Actual Purge Volume (L): 8.2
Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µmhos/cm)	Temp (°F)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:10	0.0	235	purge start time						
10:32	5.3	↓	6.77	680	61.5	0.78	-125.9	12.07	
10:35	6.1		6.76	680	61.1	0.71	-125.4	8.46	
10:38	6.8		6.76	676	61.1	0.68	-125.3	7.05	
10:41	7.5		6.77	680	61.1	0.66	-125.6	8.75	
10:44	8.2		6.77	674	61.5	0.63	-125.5	12.02	

Sampling Activities

Sampled By: Tracy Carroll Sample Date/Time: 8/13/2024 10:44
Sample Method: Low-Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.77 pH 674 Spec. Cond. 61.5 Temp
Field Filtered: No Filter Type:
Water Level: 10.22 feet below TOC Drawdown: 0.34 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)



Form Completed By: **Date:** 8/13/2024

Site Sampling Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 9:59
7.0 Buffer	WC240307F	6.99	8/12/24 9:54
10.0 Buffer	WC240625B	9.99	8/12/24 10:02
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/12/24 10:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.4	8/12/24 10:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	8/12/24 10:19	22.4	7.01	1,410			
CCV-1-BG	CCV	8/12/24 15:30	23.6	7.04	1,416			

Comments:

Field Meter ID: Pine 45985 Technician(s): Brett Gillihan Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.02	8/13/24 8:58
7.0 Buffer	WC240307F	7.00	8/13/24 8:54
10.0 Buffer	WC240625B	10.01	8/13/24 9:01
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:05

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.9	8/13/24 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	8/13/24 9:20	23.5	7.01	1,411			
CCV-2-BG	CCV	8/13/24 12:19	24.5	7.02	1,420			

Comments:

Site Sampling Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.01	8/12/24 10:31
7.0 Buffer	WC240307F	7.01	8/12/24 10:23
10.0 Buffer	WC240625B	10.00	8/12/24 10:39
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/12/24 10:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-TC	LCS	8/12/24 10:44	24.6	7.03	1,410			
CCV-1-TC	CCV	8/12/24 14:28	25.2	7.08	1,453			

Comments:

Field Meter ID: Pine 223344 Technician(s): Tracy Carroll Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC240612A	4.00	8/13/24 9:38
7.0 Buffer	WC240307F	7.01	8/13/24 9:35
10.0 Buffer	WC240625B	10.00	8/13/24 9:41
LCS/CCV (7.0 Buffer)	WC231207A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1412	8/13/24 9:37

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-TC	LCS	8/13/24 9:42	21	7.02	1,413			
CCV-2-TC	CCV	8/13/24 14:18	22.5	7.06	1,422			

Comments:

Site Sampling Event: Ash Pond Monitoring Wells
LIMS Workorder: 24080242
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 3Q 2024

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/12/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	4.00	8/12/24 9:33
7.0 Buffer	wc240307f	6.99	8/12/24 9:30
10.0 Buffer	wc240625b	9.99	8/12/24 9:36
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1413	8/12/24 9:39

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.41	8/12/24 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	8/12/24 9:45	23.2	6.99	1,413	0.41		
CCV-1-JC	CCV	8/12/24 14:44	24.49	7.01	1,427	0.47		

Comments:

Field Meter ID: Pine 218074 Technician(s): justin colp Date: 8/13/2024

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc240612a	3.99	8/13/24 8:55
7.0 Buffer	wc240307f	7.00	8/13/24 8:57
10.0 Buffer	wc240625b	10.00	8/13/24 8:59
LCS/CCV (7.0 Buffer)	wc231207a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	98627	1410	8/13/24 9:04

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.43	8/13/24 9:07
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	8/13/24 9:10	23.1	7.00	1,410	0.43		
CCV-2-JC	CCV	8/13/24 11:36	24.8	7.02	1,416	0.47		

Comments:

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

September 18, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24080242

Dear Shelly Hennessy:

Order No.: 24081370

Summit Environmental Technologies, Inc. received 19 sample(s) on 8/19/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24081370**
Date: **9/18/2024**

CLIENT: TEKLAB Inc,
Project: 24080242

WorkOrder Narrative:
24081370: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
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Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24081370**
Date: **9/18/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

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Workorder Sample Summary

WO#: **24081370**

18-Sep-24

CLIENT: TEKLAB Inc,
Project: 24080242

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24081370-001	24080242-001		8/12/2024 10:18:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-002	24080242-002		8/12/2024 11:19:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-003	24080242-003		8/12/2024 1:04:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-004	24080242-005		8/12/2024 12:35:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-005	24080242-006		8/12/2024 11:59:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-006	24080242-007		8/12/2024 10:50:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-007	24080242-008		8/12/2024 1:52:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-008	24080242-009		8/13/2024 11:06:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-009	24080242-010		8/12/2024 2:21:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-010	24080242-011		8/13/2024 10:43:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-011	24080242-012		8/12/2024 12:07:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-012	24080242-013		8/12/2024 1:02:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-013	24080242-014		8/12/2024 1:28:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-014	24080242-015		8/13/2024 11:19:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-015	24080242-016		8/12/2024 2:18:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-016	24080242-017		8/12/2024 12:32:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-017	24080242-018		8/13/2024 12:20:00 PM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-018	24080242-019		8/13/2024 11:32:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water
24081370-019	24080242-020		8/13/2024 10:44:00 AM	8/19/2024 12:30:00 PM	Non-Potable Water

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Website: http://www.settek.com

DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-001A	24080242-001	8/12/2024 10:18:00 AM	Non-Potable Water	Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-002A	24080242-002	8/12/2024 11:19:00 AM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-003A	24080242-003	8/12/2024 1:04:00 PM		Combined Radium (EPA903+904)			9/17/2024 12:00:15 PM
				Radium-226 (EPA 903.0)		9/5/2024 10:37:44 AM	9/11/2024 1:22:47 PM
				Radium-228 (EPA 904.0)		9/5/2024 10:37:44 AM	9/10/2024 1:54:42 PM
24081370-004A	24080242-005	8/12/2024 12:35:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-005A	24080242-006	8/12/2024 11:59:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-006A	24080242-007	8/12/2024 10:50:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-007A	24080242-008	8/12/2024 1:52:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-008A	24080242-009	8/13/2024 11:06:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM

Original

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DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-008A	24080242-009	8/13/2024 11:06:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-009A	24080242-010	8/12/2024 2:21:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-010A	24080242-011	8/13/2024 10:43:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-011A	24080242-012	8/12/2024 12:07:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-012A	24080242-013	8/12/2024 1:02:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-013A	24080242-014	8/12/2024 1:28:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-014A	24080242-015	8/13/2024 11:19:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-015A	24080242-016	8/12/2024 2:18:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-016A	24080242-017	8/12/2024 12:32:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM

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DATES REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24081370-016A	24080242-017	8/12/2024 12:32:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-017A	24080242-018	8/13/2024 12:20:00 PM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-018A	24080242-019	8/13/2024 11:32:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM
24081370-019A	24080242-020	8/13/2024 10:44:00 AM		Combined Radium (EPA903+904)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-226 (EPA 903.0)		9/9/2024 11:10:00 AM	9/17/2024 10:44:46 PM
				Radium-228 (EPA 904.0)		9/9/2024 11:10:00 AM	9/16/2024 2:26:20 PM

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 10:18:00 AM

Project: 24080242

Lab ID: 24081370-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.310	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 11:19:00 AM

Project: 24080242

Lab ID: 24081370-002

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.380	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.310	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 1:04:00 PM

Project: 24080242

Lab ID: 24081370-003
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**		Analyst: **HDJ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	2.00		pCi/L	± 0.320	1	9/17/2024 12:00:15 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0700	1	9/11/2024 1:22:47 PM
Yield	1.00					1	9/11/2024 1:22:47 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.250	1	9/10/2024 1:54:42 PM
Yield	1.00					1	9/10/2024 1:54:42 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 12:35:00 PM

Project: 24080242

Lab ID: 24081370-004
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.760	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.100	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.660	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 11:59:00 AM

Project: 24080242

Lab ID: 24081370-005
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.970	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0600	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.910	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 10:50:00 AM

Project: 24080242

Lab ID: 24081370-006
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.840	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0500	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.790	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 1:52:00 PM

Project: 24080242

Lab ID: 24081370-007
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.890	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.120	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.770	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/13/2024 11:06:00 AM

Project: 24080242

Lab ID: 24081370-008

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.26	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.250	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.23	2.00		pCi/L	± 1.01	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 2:21:00 PM

Project: 24080242

Lab ID: 24081370-009
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.910	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.130	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.780	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/13/2024 10:43:00 AM

Project: 24080242

Lab ID: 24081370-010
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.09	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.160	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.930	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 12:07:00 PM

Project: 24080242

Lab ID: 24081370-011
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.950	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0900	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.860	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 1:02:00 PM

Project: 24080242

Lab ID: 24081370-012
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-013

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.44	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.160	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.96	2.00		pCi/L	± 1.28	1	9/16/2024 2:26:20 PM
Yield	0.820					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 1:28:00 PM

Project: 24080242

Lab ID: 24081370-013

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-014

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.07	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0900	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.980	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/13/2024 11:19:00 AM

Project: 24080242

Lab ID: 24081370-014
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.840	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.120	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.720	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/12/2024 2:18:00 PM

Project: 24080242

Lab ID: 24081370-015
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-016

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.32	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.180	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.57	2.00		pCi/L	± 1.14	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/12/2024 12:32:00 PM

Project: 24080242

Lab ID: 24081370-016

Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-017

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.20	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.150	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	2.31	2.00		pCi/L	± 1.05	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/13/2024 12:20:00 PM

Project: 24080242

Lab ID: 24081370-017
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-018

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.13	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.150	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.980	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

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WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/13/2024 11:32:00 AM

Project: 24080242

Lab ID: 24081370-018
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-019

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 0.990	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.0600	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 0.930	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24081370**

Date Reported: **9/18/2024**

CLIENT: TEKLAB Inc,
Collection Date: 8/13/2024 10:44:00 AM

Project: 24080242

Lab ID: 24081370-019
Matrix: NON-POTABLE WATER

Client Sample ID: 24080242-020

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**CALCULATION**	**E903-904**	Analyst: **SMZ**
COMBINED RADIUM (EPA903+904)							
Radium-226/Radium-228	ND	4.00		pCi/L	± 1.22	1	9/17/2024 10:44:46 PM
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	2.00		pCi/L	± 0.160	1	9/17/2024 10:44:46 PM
Yield	1.00					1	9/17/2024 10:44:46 PM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	2.00		pCi/L	± 1.04	1	9/16/2024 2:26:20 PM
Yield	1.00					1	9/16/2024 2:26:20 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **MB-78364** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192975**
Client ID: **PBW** Batch ID: **78364** TestNo: **E904.0** **E903-904** Analysis Date: **9/10/2024** SeqNo: **5224910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-78364** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192975**
Client ID: **LCSW** Batch ID: **78364** TestNo: **E904.0** **E903-904** Analysis Date: **9/10/2024** SeqNo: **5224911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.73	1.00	5.000	0	74.6	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-78364** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192975**
Client ID: **LCSS02** Batch ID: **78364** TestNo: **E904.0** **E903-904** Analysis Date: **9/10/2024** SeqNo: **5224912**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.48	1.00	5.000	0	69.6	50	130	3.730	6.93	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Analytical Laboratories

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **24081279-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192975**
Client ID: **BatchQC** Batch ID: **78364** TestNo: **E904.0** **E903-904** Analysis Date: **9/10/2024** SeqNo: **5224919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **MB-78364** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**
Client ID: **PBW** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224968**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78364** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**
Client ID: **LCSW** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224969**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130				

Sample ID: **LCSD-78364** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**
Client ID: **LCSS02** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224970**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.78	1.00	5.000	0	95.6	70	130	4.960	3.70	20	

Sample ID: **24081277-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**
Client ID: **BatchQC** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78364**

Sample ID: **24081277-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/5/2024** RunNo: **192981**
Client ID: **BatchQC** Batch ID: **78364** TestNo: **E903.0** **E903-904** Analysis Date: **9/11/2024** SeqNo: **5224975**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **MB-78453** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **PBW** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233515**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-78453** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **LCSW** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233516**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.33	1.00	5.000	0	66.6	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-78453** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **LCSS02** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233517**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.07	1.00	5.000	0	61.4	50	130	3.330	8.13	20	
Yield	0.960			0	0			1.000	4.08		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**
18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **24081834-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.09	1.00		0	0			0.7400	38.3	20	R
Yield	0.980			0	0			1.000	2.02		

Sample ID: **24081834-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193345**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E904.0** **E903-904** Analysis Date: **9/16/2024** SeqNo: **5233542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**
18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **MB-78453** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **PBW** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78453** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **LCSW** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.33	1.00	5.000	0	86.6	70	130				QLR

Sample ID: **LCSD-78453** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **LCSS02** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.36	1.00	5.000	0	107	70	130	4.330	21.3	20	R

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24081370**

18-Sep-24

Client: TEKLAB Inc,
Project: 24080242 **BatchID:** **78453**

Sample ID: **24081834-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233764**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24081834-002ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/9/2024** RunNo: **193353**
Client ID: **BatchQC** Batch ID: **78453** TestNo: **E903.0** **E903-904** Analysis Date: **9/17/2024** SeqNo: **5233766**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

24081570

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Cooler Temp: Sampler: Teklab, Inc. QC Level: 2

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24080242

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 36831 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228									
	24080242-001	8/12/24 1018	HNO3	Groundwater	✔	✔	✔	pH	1	Cpm=57						
	24080242-002	8/12/24 1119	HNO3	Groundwater	✔	✔	✔		1		10					
	24080242-003	8/12/24 1304	HNO3	Groundwater	✔	✔	✔		1		30					
	24080242-005	8/12/24 1235	HNO3	Groundwater	✔	✔	✔		1		18					
	24080242-006	8/12/24 1159	HNO3	Groundwater	✔	✔	✔		1		41					
	24080242-007	8/12/24 1050	HNO3	Groundwater	✔	✔	✔		1		37					
	24080242-008	8/12/24 1352	HNO3	Groundwater	✔	✔	✔		1		11					
	24080242-009	8/13/24 1106	HNO3	Groundwater	✔	✔	✔		1		41					
	24080242-010	8/12/24 1421	HNO3	Groundwater	✔	✔	✔		1		33					
	24080242-011	8/13/24 1043	HNO3	Groundwater	✔	✔	✔		1		17					
	24080242-012	8/12/24 1207	HNO3	Groundwater	✔	✔	✔	✓			33					

21.6 + 0.1 = 21.5, Federal Code

*Relinquished By	Date/Time	Received By	Date/Time
[illegible]	8/14/24 1700	[illegible] AUG 19 2024	12 30

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: | Sampler: Teklab, Inc. | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Ra226, Ra228 and Combinded Radium per your usual methods.
Changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24080242

Contact: Shelly Hennessy | Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT | Billing/PO: 36831 | Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	Radium 226	Radium 228										
	24080242-013	8/12/24 1302	HNO3	Groundwater	✔	✔	✔	pH	1	Com	33						
	24080242-014	8/12/24 1328	HNO3	Groundwater	✔	✔	✔		1		45						
	24080242-015	8/13/24 1119	HNO3	Groundwater	✔	✔	✔		1		33						
	24080242-016	8/12/24 1418	HNO3	Groundwater	✔	✔	✔		1		17						
	24080242-017	8/12/24 1232	HNO3	Groundwater	✔	✔	✔		1		34						
	24080242-018	8/13/24 1220	HNO3	Groundwater	✔	✔	✔		1		56						
	24080242-019	8/13/24 1132	HNO3	Groundwater	✔	✔	✔		1		52						
	24080242-020	8/13/24 1044	HNO3	Groundwater	✔	✔	✔		1		24						
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

21.6 - 0.1 = 21.5, Fedex Cooler

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	8/14/24 1700	[signature] AUG 19 2024	1230

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization and proprietary rights.
Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24081370 RcptNo: 1

Logged by:	Anthony W. Britton	8/19/2024 12:30:00 PM	Anthony Britton
Completed By:	Christina N. Gemma	8/20/2024 9:28:43 AM	C. Gemma
Reviewed By:	Jennifer Woolf	8/20/2024 1:59:11 PM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
	No. Seal Date:	Signed By:		
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.5	Good	Not Present			

APPENDIX C-4:

Fourth Quarter 2024
Laboratory Analytical Report and Field Notes

September 24, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24082414

Dear Eric Staley:

TEKLAB, INC received 1 sample on 8/29/2024 11:54:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24082414
Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	8
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24082414

Client Project: Ash Pond Monitoring Wells **Report Date:** 24-Sep-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24082414

Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24082414
Report Date: 24-Sep-24

Cooler Receipt Temp: 16.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24082414
Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24082414
Client Project: Ash Pond Monitoring Wells
Report Date: 24-Sep-24
Lab ID: 24082414-001
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 08/29/2024 10:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.63**	ft	1	08/29/2024 10:01	R352520
Depth to water	*	-5.00		**7.40**	ft	1	08/29/2024 10:01	R352520
Depth to water from measuring point	*	0		**9.95**	ft	1	08/29/2024 10:01	R352520
Elevation of groundwater surface	*	0		**525.30**	ft	1	08/29/2024 10:01	R352520
Measuring Point Elevation	*	0		**535.25**	ft	1	08/29/2024 10:01	R352520
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	08/29/2024 10:01	R352520
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	08/29/2024 10:01	R352520
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.1**	°F	1	08/29/2024 10:01	R352520
SW-846 9040B								
pH, Field	*	1.00		**6.20**		1	08/29/2024 10:01	R352520
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1210**	umhos/cm @25C	1	08/29/2024 10:01	R352520
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1170**	mg/L	1	08/30/2024 9:24	R352631
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		**ND**	mg/L	10	08/29/2024 18:42	R352440
Chloride	*	5.00		**55.9**	mg/L	10	08/29/2024 18:42	R352440
Sulfate	*	10.0		**554**	mg/L	10	08/29/2024 18:42	R352440
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.102**	mg/L	1	09/03/2024 16:40	227844
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	09/03/2024 16:40	227844
Boron	NELAP	0.0200		**14.6**	mg/L	1	09/03/2024 16:40	227844
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	09/03/2024 16:40	227844
Calcium	NELAP	0.100		**175**	mg/L	1	09/03/2024 16:40	227844
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	09/03/2024 16:40	227844
Cobalt	NELAP	0.0050		**0.0071**	mg/L	1	09/05/2024 15:52	227844
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	09/03/2024 16:40	227844
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	09/03/2024 16:40	227844
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	09/04/2024 2:12	227844
Arsenic	NELAP	0.0010		**0.0080**	mg/L	5	09/04/2024 2:12	227844
Lithium	*	0.0030		**0.0064**	mg/L	5	09/04/2024 2:12	227844
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	09/04/2024 2:12	227844
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	09/04/2024 2:12	227844
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/30/2024 14:05	227834
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	09/20/2024 0:00	R353640
Radium-228	*	0		**See Attached**	pci/L	1	09/20/2024 0:00	R353640

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24082414
Report Date: 24-Sep-24

Carrier: Tracy Carroll

Received By: PRS

Completed by: Amber Dilallo
On: 29-Aug-24

Reviewed by: Ellie Hopkins
On: 29-Aug-24

Pages to follow: Chain of custody [1] Extra pages included [12]

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	16.9
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

pH strip #96651. - amberdilallo - 8/29/2024 1:06:16 PM

Print PDF

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24082414

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 16.9 °C
Preserved in: [ ] LAB [X] FIELD FOR LAB USE ONLY
LAB NOTES: 96651 no 8/29

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Tracy Carroll

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
24082414: 001	AP-3	8/29/24 1001	Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carroll	8/29/24 1154		8/29/24 1154

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

September 24, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24082414

Dear Shelly Hennessy:

Order No.: 24090112

Summit Environmental Technologies, Inc. received 1 sample(s) on 9/3/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24090112**
Date: **9/24/2024**

CLIENT: TEKLAB Inc,
Project: 24082414

WorkOrder Narrative:
24090112: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Sequence QC Notes:
LCS/LCSD-78638 Radium-228_DW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets the required criteria.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24090112**
Date: **9/24/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **24090112**

24-Sep-24

CLIENT: TEKLAB Inc,
Project: 24082414

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24090112-001	24082414-001		8/29/2024 10:01:00 AM	9/3/2024 5:00:00 PM	Non-Potable Water

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24090112-001A	24082414-001	8/29/2024 10:01:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		9/17/2024 1:43:08 PM	9/23/2024 10:10:02 AM
				Radium-228 (EPA 904.0)		9/17/2024 1:43:08 PM	9/20/2024 2:09:34 PM

Original

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24090112**

Date Reported: **9/24/2024**

CLIENT: TEKLAB Inc,

Collection Date: 8/29/2024 10:01:00 AM

Project: 24082414

Lab ID: 24090112-001

Matrix: NON-POTABLE WATER

Client Sample ID: 24082414-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RAD226/228					**E903.0**	**E903-904**	Analyst: **SMZ**
RADIUM-226 (EPA 903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0500	1	9/23/2024 10:10:02 AM
Yield	1.00					1	9/23/2024 10:10:02 AM
RAD226/228					**E904.0**	**E903-904**	Analyst: **SMZ**
RADIUM-228 (EPA 904.0)							
Radium-228	ND	1.00		pCi/L	± 0.430	1	9/20/2024 2:09:34 PM
Yield	0.960					1	9/20/2024 2:09:34 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **MB-78638** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **PBW** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	0.940			0	0						

Sample ID: **LCS-78638** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **LCSW** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.52	1.00	5.000	0	50.4	50	130				QLR
Yield	0.910			0	0						

Sample ID: **LCSD-78638** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **LCSS02** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.45	1.00	5.000	0	69.0	50	130	2.520	31.2	20	R
Yield	1.00			0	0			0.9100	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Sample ID: **24082207-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193694**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E904.0** **E903-904** Analysis Date: **9/20/2024** SeqNo: **5243180**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Laboratories

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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **MB-78638** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **PBW** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-78638** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **LCSW** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.26	1.00	5.000	0	85.2	70	130				

Sample ID: **LCSD-78638** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **LCSS02** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243276**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.63	1.00	5.000	0	92.6	70	130	4.260	8.32	20	

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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Analytical Laboratories

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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24090112**

24-Sep-24

Client: TEKLAB Inc,
Project: 24082414 **BatchID:** **78638**

Sample ID: **24082205-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243281**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24082207-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **9/17/2024** RunNo: **193700**
Client ID: **BatchQC** Batch ID: **78638** TestNo: **E903.0** **E903-904** Analysis Date: **9/23/2024** SeqNo: **5243283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24090112 RcptNo: 1

Logged by:	Anthony W. Britton	9/3/2024 5:00:00 PM	Anthony Britton
Completed By:	Anthony W. Britton	9/4/2024 2:28:52 PM	Anthony Britton
Reviewed By:	Jennifer Woolf	9/6/2024 3:01:49 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. 4608 Seal Date: 8/29/2024 Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☑ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
   Not required
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? Yes ☑ No ☐
    (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.2	Good	Yes	4608	8/29/2024	

December 06, 2024

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells **WorkOrder:** 24110120

Dear Eric Staley:

TEKLAB, INC received 20 samples on 11/13/2024 3:45:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	27
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 24110120

Client Project: Ash Pond Monitoring Wells **Report Date:** 06-Dec-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Client: City Water, Light & Power
Work Order: 24110120

Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells

Work Order: 24110120
Report Date: 06-Dec-24

Cooler Receipt Temp: 10.9 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 & -228 analysis was performed by Summit Environmental Technologies. See attached report for results.

Locations

Collinsville

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Springfield

Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Kansas City

Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Collinsville Air

Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Chicago

Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-001
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 11/11/2024 11:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	11/11/2024 11:03	R356375
Depth to water	*	-5.00		**8.75**	ft	1	11/11/2024 11:03	R356375
Depth to water from measuring point	*	0		**11.45**	ft	1	11/11/2024 11:03	R356375
Elevation of groundwater surface	*	0		**528.05**	ft	1	11/11/2024 11:03	R356375
Measuring Point Elevation	*	0		**539.50**	ft	1	11/11/2024 11:03	R356375
Measuring Point Height Above Land Surface	*	0		**2.70**	ft	1	11/11/2024 11:03	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**48**	NTU	1	11/11/2024 11:03	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	11/11/2024 11:03	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.13**		1	11/11/2024 11:03	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**531**	µmhos/cm @25C	1	11/11/2024 11:03	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**470**	mg/L	2.5	11/14/2024 12:11	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:09	R355975
Chloride	NELAP	5.00		**25.1**	mg/L	10	11/13/2024 17:09	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 17:09	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.180**	mg/L	1	11/12/2024 11:03	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:03	231044
Boron	NELAP	0.0200		**0.137**	mg/L	1	11/12/2024 11:03	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:03	231044
Calcium	NELAP	0.100		**67.2**	mg/L	1	11/12/2024 11:03	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:03	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:03	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:03	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:03	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:11	231044
Arsenic	NELAP	0.0010		**0.214**	mg/L	5	11/14/2024 0:51	231044
Lithium	*	0.0030		**0.0047**	mg/L	5	11/14/2024 17:29	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:51	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:29	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:09	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-002
Client Sample ID: AP-1
Matrix: GROUNDWATER
Collection Date: 11/11/2024 11:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**504.29**	ft	1	11/11/2024 11:44	R356375
Depth to water	*	-5.00		**8.12**	ft	1	11/11/2024 11:44	R356375
Depth to water from measuring point	*	0		**10.39**	ft	1	11/11/2024 11:44	R356375
Elevation of groundwater surface	*	0		**524.98**	ft	1	11/11/2024 11:44	R356375
Measuring Point Elevation	*	0		**535.37**	ft	1	11/11/2024 11:44	R356375
Measuring Point Height Above Land Surface	*	0		**2.27**	ft	1	11/11/2024 11:44	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	11/11/2024 11:44	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.2**	°F	1	11/11/2024 11:44	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	11/11/2024 11:44	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1380**	µmhos/cm @25C	1	11/11/2024 11:44	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1640**	mg/L	2.5	11/14/2024 12:17	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:20	R355975
Chloride	NELAP	5.00		**52.1**	mg/L	10	11/13/2024 17:20	R355975
Sulfate	NELAP	10.0		**849**	mg/L	10	11/13/2024 17:20	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.269**	mg/L	1	11/12/2024 11:05	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:05	231044
Boron	NELAP	0.200		**23.6**	mg/L	10	11/14/2024 9:56	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:05	231044
Calcium	NELAP	0.100		**237**	mg/L	1	11/12/2024 11:05	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:05	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:05	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:05	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:05	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:45	231044
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:56	231044
Lithium	*	0.0030		**0.0094**	mg/L	5	11/14/2024 17:35	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 0:56	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:35	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:22	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-003
Client Sample ID: AP-2
Matrix: GROUNDWATER
Collection Date: 11/11/2024 12:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.77**	ft	1	11/11/2024 12:21	R356375
Depth to water	*	-5.00		**4.04**	ft	1	11/11/2024 12:21	R356375
Depth to water from measuring point	*	0		**6.54**	ft	1	11/11/2024 12:21	R356375
Elevation of groundwater surface	*	0		**529.56**	ft	1	11/11/2024 12:21	R356375
Measuring Point Elevation	*	0		**536.10**	ft	1	11/11/2024 12:21	R356375
Measuring Point Height Above Land Surface	*	0		**2.50**	ft	1	11/11/2024 12:21	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	11/11/2024 12:21	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**61.3**	°F	1	11/11/2024 12:21	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.41**		1	11/11/2024 12:21	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1140**	µmhos/cm @25C	1	11/11/2024 12:21	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1160**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:32	R355975
Chloride	NELAP	5.00		**35.1**	mg/L	10	11/13/2024 17:32	R355975
Sulfate	NELAP	10.0		**440**	mg/L	10	11/13/2024 17:32	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0727**	mg/L	1	11/12/2024 11:06	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:06	231044
Boron	NELAP	0.0200		**3.52**	mg/L	1	11/12/2024 11:06	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:06	231044
Calcium	NELAP	0.100		**222**	mg/L	1	11/12/2024 11:06	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:06	231044
Cobalt	NELAP	0.0050		**0.0085**	mg/L	1	11/12/2024 11:06	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:06	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:06	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:49	231044
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	11/14/2024 1:58	231044
Lithium	*	0.0030		**0.0068**	mg/L	5	11/14/2024 17:40	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 1:58	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:40	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:24	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-004
Client Sample ID: AP-3
Matrix: GROUNDWATER
Collection Date: 11/11/2024 12:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**514.45**	ft	1	11/11/2024 12:55	R356375
Depth to water	*	-5.00		**7.00**	ft	1	11/11/2024 12:55	R356375
Depth to water from measuring point	*	0		**9.55**	ft	1	11/11/2024 12:55	R356375
Elevation of groundwater surface	*	0		**525.70**	ft	1	11/11/2024 12:55	R356375
Measuring Point Elevation	*	0		**535.25**	ft	1	11/11/2024 12:55	R356375
Measuring Point Height Above Land Surface	*	0		**2.55**	ft	1	11/11/2024 12:55	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.7**	NTU	1	11/11/2024 12:55	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.7**	°F	1	11/11/2024 12:55	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.48**		1	11/11/2024 12:55	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1070**	µmhos/cm @25C	1	11/11/2024 12:55	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1160**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:44	R355975
Chloride	NELAP	5.00		**59.5**	mg/L	10	11/13/2024 17:44	R355975
Sulfate	NELAP	10.0		**558**	mg/L	10	11/13/2024 17:44	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.132**	mg/L	1	11/12/2024 11:08	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 11:08	231044
Boron	NELAP	0.0200		**14.9**	mg/L	1	11/12/2024 11:08	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 11:08	231044
Calcium	NELAP	0.100		**185**	mg/L	1	11/12/2024 11:08	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:08	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 11:08	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 11:08	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 11:08	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:53	231044
Arsenic	NELAP	0.0010		**0.0182**	mg/L	5	11/14/2024 2:04	231044
Lithium	*	0.0030		**0.0062**	mg/L	5	11/14/2024 17:46	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:04	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:46	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:27	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-005
Client Sample ID: AP-4
Matrix: GROUNDWATER
Collection Date: 11/11/2024 13:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.19**	ft	1	11/11/2024 13:38	R356375
Depth to water	*	-5.00		**7.77**	ft	1	11/11/2024 13:38	R356375
Depth to water from measuring point	*	0		**10.91**	ft	1	11/11/2024 13:38	R356375
Elevation of groundwater surface	*	0		**544.69**	ft	1	11/11/2024 13:38	R356375
Measuring Point Elevation	*	0		**555.60**	ft	1	11/11/2024 13:38	R356375
Measuring Point Height Above Land Surface	*	0		**3.14**	ft	1	11/11/2024 13:38	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**13**	NTU	1	11/11/2024 13:38	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.6**	°F	1	11/11/2024 13:38	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	11/11/2024 13:38	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**688**	µmhos/cm @25C	1	11/11/2024 13:38	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**565**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 17:55	R355975
Chloride	NELAP	5.00		**12.3**	mg/L	10	11/13/2024 17:55	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 17:55	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.390**	mg/L	1	11/12/2024 12:39	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 12:39	231044
Boron	NELAP	0.0200		**0.0820**	mg/L	1	11/12/2024 12:39	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 12:39	231044
Calcium	NELAP	0.100		**< 0.100**	mg/L	1	11/12/2024 12:39	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:39	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:39	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 12:39	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 12:39	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 22:57	231044
Arsenic	NELAP	0.0010		**0.0246**	mg/L	5	11/14/2024 2:09	231044
Lithium	*	0.0030		**0.0077**	mg/L	5	11/14/2024 17:51	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:09	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:51	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:30	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-006
Client Sample ID: AP-5
Matrix: GROUNDWATER
Collection Date: 11/11/2024 14:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**552.63**	ft	1	11/11/2024 14:28	R356375
Depth to water	*	-5.00		**13.98**	ft	1	11/11/2024 14:28	R356375
Depth to water from measuring point	*	0		**16.28**	ft	1	11/11/2024 14:28	R356375
Elevation of groundwater surface	*	0		**567.62**	ft	1	11/11/2024 14:28	R356375
Measuring Point Elevation	*	0		**583.90**	ft	1	11/11/2024 14:28	R356375
Measuring Point Height Above Land Surface	*	0		**2.30**	ft	1	11/11/2024 14:28	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	11/11/2024 14:28	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	11/11/2024 14:28	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.90**		1	11/11/2024 14:28	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**569**	µmhos/cm @25C	1	11/11/2024 14:28	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**470**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 18:07	R355975
Chloride	NELAP	5.00		**7.59**	mg/L	10	11/13/2024 18:07	R355975
Sulfate	NELAP	10.0		**59.2**	mg/L	10	11/13/2024 18:07	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0525**	mg/L	1	11/12/2024 12:41	231044
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 12:41	231044
Boron	NELAP	0.0200		**0.0326**	mg/L	1	11/12/2024 12:41	231044
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 12:41	231044
Calcium	NELAP	0.100		**92.6**	mg/L	1	11/12/2024 12:41	231044
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:41	231044
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 12:41	231044
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 12:41	231044
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 12:41	231044
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/15/2024 23:01	231044
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:15	231044
Lithium	*	0.0030		**0.0043**	mg/L	5	11/14/2024 17:57	231044
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/14/2024 2:15	231044
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/14/2024 17:57	231044
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:38	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-007
Client Sample ID: AP-6
Matrix: GROUNDWATER
Collection Date: 11/11/2024 10:27

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**498.20**	ft	1	11/11/2024 10:27	R356375
Depth to water	*	-5.00		**7.39**	ft	1	11/11/2024 10:27	R356375
Depth to water from measuring point	*	0		**9.81**	ft	1	11/11/2024 10:27	R356375
Elevation of groundwater surface	*	0		**528.01**	ft	1	11/11/2024 10:27	R356375
Measuring Point Elevation	*	0		**537.82**	ft	1	11/11/2024 10:27	R356375
Measuring Point Height Above Land Surface	*	0		**2.42**	ft	1	11/11/2024 10:27	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**46**	NTU	1	11/11/2024 10:27	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.2**	°F	1	11/11/2024 10:27	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.00**		1	11/11/2024 10:27	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**557**	µmhos/cm @25C	1	11/11/2024 10:27	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**445**	mg/L	2.5	11/14/2024 12:18	R356260
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/13/2024 18:19	R355975
Chloride	NELAP	5.00		**34.5**	mg/L	10	11/13/2024 18:19	R355975
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2024 18:19	R355975
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.154**	mg/L	1	11/12/2024 19:30	231056
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/12/2024 19:30	231056
Boron	NELAP	0.0200		**0.248**	mg/L	1	11/12/2024 19:30	231056
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/12/2024 19:30	231056
Calcium	NELAP	0.100		**66.0**	mg/L	1	11/12/2024 19:30	231056
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:30	231056
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/12/2024 19:30	231056
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/12/2024 19:30	231056
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/12/2024 19:30	231056
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0021**	mg/L	5	11/20/2024 8:55	231056
Arsenic	NELAP	0.0010		**0.0108**	mg/L	5	11/15/2024 4:50	231056
Lithium	*	0.0030		**0.0104**	mg/L	5	11/20/2024 8:55	231056
Selenium	NELAP	0.0010		**0.0022**	mg/L	5	11/15/2024 4:50	231056
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/15/2024 4:50	231056
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/13/2024 17:40	231083
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-008
Client Sample ID: AP-7
Matrix: GROUNDWATER
Collection Date: 11/13/2024 11:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**496.50**	ft	1	11/13/2024 11:07	R356375
Depth to water	*	-5.00		**9.78**	ft	1	11/13/2024 11:07	R356375
Depth to water from measuring point	*	0		**12.44**	ft	1	11/13/2024 11:07	R356375
Elevation of groundwater surface	*	0		**526.58**	ft	1	11/13/2024 11:07	R356375
Measuring Point Elevation	*	0		**539.02**	ft	1	11/13/2024 11:07	R356375
Measuring Point Height Above Land Surface	*	0		**2.66**	ft	1	11/13/2024 11:07	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**55**	NTU	1	11/13/2024 11:07	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.7**	°F	1	11/13/2024 11:07	R356375
SW-846 9040B								
pH, Field	*	1.00		**7.17**		1	11/13/2024 11:07	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**774**	µmhos/cm @25C	1	11/13/2024 11:07	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	100		**470**	mg/L	5	11/18/2024 15:00	R356427
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 7:20	R356148
Chloride	NELAP	5.00		**62.1**	mg/L	10	11/15/2024 7:20	R356148
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/15/2024 7:20	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.148**	mg/L	1	11/18/2024 11:13	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 11:13	231260
Boron	NELAP	0.0200		**0.332**	mg/L	1	11/18/2024 11:13	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 11:13	231260
Calcium	NELAP	0.100		**61.9**	mg/L	1	11/18/2024 11:13	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:13	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:13	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 11:13	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 11:13	231260
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:41	231194
Arsenic	NELAP	0.0010		**0.0947**	mg/L	5	11/20/2024 2:41	231194
Lithium	*	0.0030		**0.0079**	mg/L	5	11/20/2024 9:47	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:41	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 2:41	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:23	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-009
Client Sample ID: AP-8
Matrix: GROUNDWATER
Collection Date: 11/13/2024 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.60**	ft	1	11/13/2024 13:15	R356375
Depth to water	*	-5.00		**4.42**	ft	1	11/13/2024 13:15	R356375
Depth to water from measuring point	*	0		**7.32**	ft	1	11/13/2024 13:15	R356375
Elevation of groundwater surface	*	0		**529.88**	ft	1	11/13/2024 13:15	R356375
Measuring Point Elevation	*	0		**537.20**	ft	1	11/13/2024 13:15	R356375
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/13/2024 13:15	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	11/13/2024 13:15	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.3**	°F	1	11/13/2024 13:15	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.78**		1	11/13/2024 13:15	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**733**	µmhos/cm @25C	1	11/13/2024 13:15	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**530**	mg/L	2.5	11/18/2024 15:00	R356427
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 17:39	R356222
Chloride	NELAP	5.00		**23.2**	mg/L	10	11/15/2024 17:39	R356222
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/15/2024 17:39	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.364**	mg/L	1	11/18/2024 11:14	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 11:14	231260
Boron	NELAP	0.0200		**0.0840**	mg/L	1	11/18/2024 11:14	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 11:14	231260
Calcium	NELAP	0.100		**98.4**	mg/L	1	11/18/2024 11:14	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:14	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 11:14	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 11:14	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 11:14	231260
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:47	231194
Arsenic	NELAP	0.0010		**0.0386**	mg/L	5	11/20/2024 2:47	231194
Lithium	*	0.0030		**0.0069**	mg/L	5	11/20/2024 9:53	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:47	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 2:47	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:52	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-010
Client Sample ID: AP-9
Matrix: GROUNDWATER
Collection Date: 11/13/2024 12:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**500.70**	ft	1	11/13/2024 12:30	R356375
Depth to water	*	-5.00		**10.13**	ft	1	11/13/2024 12:30	R356375
Depth to water from measuring point	*	0		**13.23**	ft	1	11/13/2024 12:30	R356375
Elevation of groundwater surface	*	0		**527.07**	ft	1	11/13/2024 12:30	R356375
Measuring Point Elevation	*	0		**540.30**	ft	1	11/13/2024 12:30	R356375
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/13/2024 12:30	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.3**	NTU	1	11/13/2024 12:30	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.7**	°F	1	11/13/2024 12:30	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.80**		1	11/13/2024 12:30	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**968**	µmhos/cm @25C	1	11/13/2024 12:30	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**740**	mg/L	2.5	11/19/2024 15:09	R356516
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 17:51	R356222
Chloride	NELAP	5.00		**23.6**	mg/L	10	11/15/2024 17:51	R356222
Sulfate	NELAP	10.0		**17.7**	mg/L	10	11/15/2024 17:51	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.434**	mg/L	1	11/18/2024 12:05	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:05	231260
Boron	NELAP	0.0200		**0.0995**	mg/L	1	11/18/2024 12:05	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:05	231260
Calcium	NELAP	0.100		**104**	mg/L	1	11/18/2024 12:05	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:05	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:05	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:05	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:05	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:53	231194
Arsenic	NELAP	0.0010		**0.0019**	mg/L	5	11/20/2024 2:53	231194
Lithium	*	0.0030		**0.0066**	mg/L	5	11/20/2024 9:58	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 2:53	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 2:53	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:55	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-011
Client Sample ID: AP-10
Matrix: GROUNDWATER
Collection Date: 11/12/2024 13:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**499.43**	ft	1	11/12/2024 13:07	R356375
Depth to water	*	-5.00		**2.49**	ft	1	11/12/2024 13:07	R356375
Depth to water from measuring point	*	0		**5.59**	ft	1	11/12/2024 13:07	R356375
Elevation of groundwater surface	*	0		**531.91**	ft	1	11/12/2024 13:07	R356375
Measuring Point Elevation	*	0		**537.50**	ft	1	11/12/2024 13:07	R356375
Measuring Point Height Above Land Surface	*	0		**3.10**	ft	1	11/12/2024 13:07	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.2**	NTU	1	11/12/2024 13:07	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.1**	°F	1	11/12/2024 13:07	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.73**		1	11/12/2024 13:07	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1150**	µmhos/cm @25C	1	11/12/2024 13:07	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**790**	mg/L	2.5	11/15/2024 15:28	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 13:51	R356148
Chloride	NELAP	5.00		**25.7**	mg/L	10	11/14/2024 13:51	R356148
Sulfate	NELAP	10.0		**89.4**	mg/L	10	11/14/2024 13:51	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.628**	mg/L	1	11/15/2024 10:50	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 10:50	231140
Boron	NELAP	0.0200		**3.95**	mg/L	1	11/15/2024 10:50	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 10:50	231140
Calcium	NELAP	0.100		**140**	mg/L	1	11/15/2024 10:50	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 10:50	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 10:50	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 10:50	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 10:50	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 10:56	231140
Arsenic	NELAP	0.0010		**0.0011**	mg/L	5	11/16/2024 10:56	231140
Lithium	*	0.0030		**0.0101**	mg/L	5	11/20/2024 10:21	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 10:56	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 10:56	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:15	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/03/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-012
Client Sample ID: AP-11
Matrix: GROUNDWATER
Collection Date: 11/12/2024 10:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.15**	ft	1	11/12/2024 10:01	R356375
Depth to water	*	-5.00		**12.63**	ft	1	11/12/2024 10:01	R356375
Depth to water from measuring point	*	0		**15.43**	ft	1	11/12/2024 10:01	R356375
Elevation of groundwater surface	*	0		**522.67**	ft	1	11/12/2024 10:01	R356375
Measuring Point Elevation	*	0		**538.10**	ft	1	11/12/2024 10:01	R356375
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/12/2024 10:01	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.1**	NTU	1	11/12/2024 10:01	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.7**	°F	1	11/12/2024 10:01	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.66**		1	11/12/2024 10:01	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**958**	µmhos/cm @25C	1	11/12/2024 10:01	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**686**	mg/L	1	11/15/2024 15:28	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 14:02	R356148
Chloride	NELAP	5.00		**91.0**	mg/L	10	11/14/2024 14:02	R356148
Sulfate	NELAP	10.0		**63.4**	mg/L	10	11/14/2024 14:02	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.122**	mg/L	1	11/15/2024 14:45	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:45	231140
Boron	NELAP	0.0200		**0.261**	mg/L	1	11/15/2024 14:45	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:45	231140
Calcium	NELAP	0.100		**124**	mg/L	1	11/15/2024 14:45	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:45	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:45	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:45	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:45	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:01	231140
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:01	231140
Lithium	*	0.0030		**0.0050**	mg/L	5	11/20/2024 10:26	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:01	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:01	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:17	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-013
Client Sample ID: AP-12
Matrix: GROUNDWATER
Collection Date: 11/12/2024 10:49

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**510.30**	ft	1	11/12/2024 10:49	R356375
Depth to water	*	-5.00		**15.02**	ft	1	11/12/2024 10:49	R356375
Depth to water from measuring point	*	0		**17.92**	ft	1	11/12/2024 10:49	R356375
Elevation of groundwater surface	*	0		**522.78**	ft	1	11/12/2024 10:49	R356375
Measuring Point Elevation	*	0		**540.70**	ft	1	11/12/2024 10:49	R356375
Measuring Point Height Above Land Surface	*	0		**2.90**	ft	1	11/12/2024 10:49	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**26**	NTU	1	11/12/2024 10:49	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.6**	°F	1	11/12/2024 10:49	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.59**		1	11/12/2024 10:49	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1550**	µmhos/cm @25C	1	11/12/2024 10:49	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1300**	mg/L	2.5	11/15/2024 15:28	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 15:01	R356148
Chloride	NELAP	5.00		**120**	mg/L	10	11/14/2024 15:01	R356148
Sulfate	NELAP	10.0		**457**	mg/L	10	11/14/2024 15:01	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0458**	mg/L	1	11/15/2024 14:46	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:46	231140
Boron	NELAP	0.0200		**< 0.0200**	mg/L	1	11/15/2024 14:46	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:46	231140
Calcium	NELAP	0.100		**203**	mg/L	1	11/15/2024 14:46	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:46	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:46	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:46	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:46	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:07	231140
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:07	231140
Lithium	*	0.0030		**0.0065**	mg/L	5	11/20/2024 10:32	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:07	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:07	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:20	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	11/27/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	11/27/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-014
Client Sample ID: AP-13
Matrix: GROUNDWATER
Collection Date: 11/12/2024 11:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.00**	ft	1	11/12/2024 11:25	R356375
Depth to water	*	-5.00		**16.00**	ft	1	11/12/2024 11:25	R356375
Depth to water from measuring point	*	0		**19.40**	ft	1	11/12/2024 11:25	R356375
Elevation of groundwater surface	*	0		**522.60**	ft	1	11/12/2024 11:25	R356375
Measuring Point Elevation	*	0		**542.00**	ft	1	11/12/2024 11:25	R356375
Measuring Point Height Above Land Surface	*	0		**3.40**	ft	1	11/12/2024 11:25	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**7.3**	NTU	1	11/12/2024 11:25	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.8**	°F	1	11/12/2024 11:25	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.67**		1	11/12/2024 11:25	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**776**	µmhos/cm @25C	1	11/12/2024 11:25	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**655**	mg/L	2.5	11/15/2024 15:35	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 15:12	R356148
Chloride	NELAP	5.00		**25.8**	mg/L	10	11/14/2024 15:12	R356148
Sulfate	NELAP	10.0		**121**	mg/L	10	11/14/2024 15:12	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.120**	mg/L	1	11/15/2024 14:47	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:47	231140
Boron	NELAP	0.0200		**< 0.0200**	mg/L	1	11/15/2024 14:47	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:47	231140
Calcium	NELAP	0.100		**103**	mg/L	1	11/15/2024 14:47	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:47	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:47	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:13	231140
Arsenic	NELAP	0.0010		**0.0038**	mg/L	5	11/16/2024 11:13	231140
Lithium	*	0.0030		**0.0120**	mg/L	5	11/20/2024 10:38	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:13	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:13	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:38	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-015
Client Sample ID: AP-14
Matrix: GROUNDWATER
Collection Date: 11/12/2024 13:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**508.40**	ft	1	11/12/2024 13:43	R356375
Depth to water	*	-5.00		**1.84**	ft	1	11/12/2024 13:43	R356375
Depth to water from measuring point	*	0		**4.64**	ft	1	11/12/2024 13:43	R356375
Elevation of groundwater surface	*	0		**534.96**	ft	1	11/12/2024 13:43	R356375
Measuring Point Elevation	*	0		**539.60**	ft	1	11/12/2024 13:43	R356375
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	11/12/2024 13:43	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.0**	NTU	1	11/12/2024 13:43	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.2**	°F	1	11/12/2024 13:43	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.93**		1	11/12/2024 13:43	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	11/12/2024 13:43	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1840**	mg/L	2.5	11/15/2024 15:35	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 15:24	R356148
Chloride	NELAP	5.00		**94.0**	mg/L	10	11/14/2024 15:24	R356148
Sulfate	NELAP	10.0		**909**	mg/L	10	11/14/2024 15:24	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0413**	mg/L	1	11/15/2024 14:47	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:47	231140
Boron	NELAP	0.200		**21.0**	mg/L	10	11/18/2024 13:45	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:47	231140
Calcium	NELAP	0.100		**253**	mg/L	1	11/15/2024 14:47	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:47	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:47	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:47	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:18	231140
Arsenic	NELAP	0.0010		**0.0022**	mg/L	5	11/16/2024 11:18	231140
Lithium	*	0.0030		**0.0072**	mg/L	5	11/20/2024 10:43	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:18	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:18	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:40	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-016
Client Sample ID: T-1
Matrix: GROUNDWATER
Collection Date: 11/12/2024 12:09

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**512.70**	ft	1	11/12/2024 12:09	R356375
Depth to water	*	-5.00		**13.68**	ft	1	11/12/2024 12:09	R356375
Depth to water from measuring point	*	0		**14.01**	ft	1	11/12/2024 12:09	R356375
Elevation of groundwater surface	*	0		**521.64**	ft	1	11/12/2024 12:09	R356375
Measuring Point Elevation	*	0		**535.65**	ft	1	11/12/2024 12:09	R356375
Measuring Point Height Above Land Surface	*	0		**0.33**	ft	1	11/12/2024 12:09	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	11/12/2024 12:09	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.1**	°F	1	11/12/2024 12:09	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.57**		1	11/12/2024 12:09	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1470**	µmhos/cm @25C	1	11/12/2024 12:09	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**1060**	mg/L	2.5	11/15/2024 15:35	R356333
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/14/2024 15:59	R356148
Chloride	NELAP	5.00		**233**	mg/L	10	11/14/2024 15:59	R356148
Sulfate	NELAP	10.0		**224**	mg/L	10	11/14/2024 15:59	R356148
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0707**	mg/L	1	11/15/2024 14:48	231140
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/15/2024 14:48	231140
Boron	NELAP	0.0200		**0.150**	mg/L	1	11/15/2024 14:48	231140
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/15/2024 14:48	231140
Calcium	NELAP	0.100		**172**	mg/L	1	11/15/2024 14:48	231140
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:48	231140
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/15/2024 14:48	231140
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/15/2024 14:48	231140
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/15/2024 14:48	231140
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:53	231140
Arsenic	NELAP	0.0010		**0.0019**	mg/L	5	11/16/2024 11:53	231140
Lithium	*	0.0030		**0.0199**	mg/L	5	11/20/2024 10:49	231140
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/16/2024 11:53	231140
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/16/2024 11:53	231140
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/14/2024 12:43	231146
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-017
Client Sample ID: T-2
Matrix: GROUNDWATER
Collection Date: 11/13/2024 13:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**515.18**	ft	1	11/13/2024 13:40	R356375
Depth to water	*	-5.00		**12.83**	ft	1	11/13/2024 13:40	R356375
Depth to water from measuring point	*	0		**15.23**	ft	1	11/13/2024 13:40	R356375
Elevation of groundwater surface	*	0		**534.39**	ft	1	11/13/2024 13:40	R356375
Measuring Point Elevation	*	0		**549.62**	ft	1	11/13/2024 13:40	R356375
Measuring Point Height Above Land Surface	*	0		**2.40**	ft	1	11/13/2024 13:40	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	11/13/2024 13:40	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.5**	°F	1	11/13/2024 13:40	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	11/13/2024 13:40	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1870**	µmhos/cm @25C	1	11/13/2024 13:40	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50	H	**1580**	mg/L	2.5	11/21/2024 17:12	R356629
Sample analysis did not meet hold time requirements.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 18:02	R356222
Chloride	NELAP	5.00		**509**	mg/L	10	11/15/2024 18:02	R356222
Sulfate	NELAP	10.0		**142**	mg/L	10	11/15/2024 18:02	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.225**	mg/L	1	11/18/2024 12:07	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:07	231260
Boron	NELAP	0.0200		**0.0507**	mg/L	1	11/18/2024 12:07	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:07	231260
Calcium	NELAP	0.100		**211**	mg/L	1	11/18/2024 12:07	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:07	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:07	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:07	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:07	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 3:00	231194
Arsenic	NELAP	0.0010		**0.0060**	mg/L	5	11/20/2024 3:00	231194
Lithium	*	0.0030		**0.0345**	mg/L	5	11/20/2024 10:43	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 3:00	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 3:00	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 11:58	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-018
Client Sample ID: T-4
Matrix: GROUNDWATER
Collection Date: 11/13/2024 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**521.52**	ft	1	11/13/2024 12:07	R356375
Depth to water	*	-5.00		**17.24**	ft	1	11/13/2024 12:07	R356375
Depth to water from measuring point	*	0		**19.62**	ft	1	11/13/2024 12:07	R356375
Elevation of groundwater surface	*	0		**529.32**	ft	1	11/13/2024 12:07	R356375
Measuring Point Elevation	*	0		**548.94**	ft	1	11/13/2024 12:07	R356375
Measuring Point Height Above Land Surface	*	0		**2.38**	ft	1	11/13/2024 12:07	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**32**	NTU	1	11/13/2024 12:07	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	11/13/2024 12:07	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	11/13/2024 12:07	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**648**	µmhos/cm @25C	1	11/13/2024 12:07	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50	H	**695**	mg/L	2.5	11/21/2024 17:12	R356629
Sample analysis did not meet hold time requirements.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 9:06	R356222
Chloride	NELAP	5.00		**ND**	mg/L	10	11/15/2024 9:06	R356222
Sulfate	NELAP	10.0		**104**	mg/L	10	11/15/2024 9:06	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0578**	mg/L	1	11/18/2024 12:08	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:08	231260
Boron	NELAP	0.0200		**0.0565**	mg/L	1	11/18/2024 12:08	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:08	231260
Calcium	NELAP	0.100		**96.8**	mg/L	1	11/18/2024 12:08	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:08	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:08	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:08	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:08	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 3:48	231194
Arsenic	NELAP	0.0010		**0.0055**	mg/L	5	11/20/2024 3:48	231194
Lithium	*	0.0030		**0.0161**	mg/L	5	11/20/2024 10:49	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 3:48	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 3:48	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 12:00	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-019
Client Sample ID: T-5
Matrix: GROUNDWATER
Collection Date: 11/13/2024 11:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**518.32**	ft	1	11/13/2024 11:35	R356375
Depth to water	*	-5.00		**8.95**	ft	1	11/13/2024 11:35	R356375
Depth to water from measuring point	*	0		**11.46**	ft	1	11/13/2024 11:35	R356375
Elevation of groundwater surface	*	0		**529.20**	ft	1	11/13/2024 11:35	R356375
Measuring Point Elevation	*	0		**540.66**	ft	1	11/13/2024 11:35	R356375
Measuring Point Height Above Land Surface	*	0		**2.51**	ft	1	11/13/2024 11:35	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	11/13/2024 11:35	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.9**	°F	1	11/13/2024 11:35	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	11/13/2024 11:35	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**549**	µmhos/cm @25C	1	11/13/2024 11:35	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**382**	mg/L	1	11/19/2024 14:17	R356516
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 9:40	R356222
Chloride	NELAP	5.00		**ND**	mg/L	10	11/15/2024 9:40	R356222
Sulfate	NELAP	10.0		**40.4**	mg/L	10	11/15/2024 9:40	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0564**	mg/L	1	11/18/2024 12:10	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:10	231260
Boron	NELAP	0.0200		**0.0791**	mg/L	1	11/18/2024 12:10	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:10	231260
Calcium	NELAP	0.100		**70.3**	mg/L	1	11/18/2024 12:10	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:10	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:10	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:10	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:10	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 3:54	231194
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	11/20/2024 3:54	231194
Lithium	*	0.0030		**0.0109**	mg/L	5	11/20/2024 10:54	231194
Selenium	NELAP	0.0010		**0.0012**	mg/L	5	11/20/2024 3:54	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 3:54	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 12:08	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24
Lab ID: 24110120-020
Client Sample ID: T-6
Matrix: GROUNDWATER
Collection Date: 11/13/2024 10:37

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**494.70**	ft	1	11/13/2024 10:37	R356375
Depth to water	*	-5.00		**8.66**	ft	1	11/13/2024 10:37	R356375
Depth to water from measuring point	*	0		**11.02**	ft	1	11/13/2024 10:37	R356375
Elevation of groundwater surface	*	0		**527.30**	ft	1	11/13/2024 10:37	R356375
Measuring Point Elevation	*	0		**538.32**	ft	1	11/13/2024 10:37	R356375
Measuring Point Height Above Land Surface	*	0		**2.36**	ft	1	11/13/2024 10:37	R356375
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**14**	NTU	1	11/13/2024 10:37	R356375
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.1**	°F	1	11/13/2024 10:37	R356375
SW-846 9040B								
pH, Field	*	1.00		**6.97**		1	11/13/2024 10:37	R356375
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**869**	µmhos/cm @25C	1	11/13/2024 10:37	R356375
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**595**	mg/L	2.5	11/19/2024 14:07	R356516
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	11/15/2024 10:16	R356222
Chloride	NELAP	5.00		**19.4**	mg/L	10	11/15/2024 10:16	R356222
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/15/2024 10:16	R356222
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.306**	mg/L	1	11/18/2024 12:12	231260
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	11/18/2024 12:12	231260
Boron	NELAP	0.0200		**0.210**	mg/L	1	11/18/2024 12:12	231260
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	11/18/2024 12:12	231260
Calcium	NELAP	0.100		**91.4**	mg/L	1	11/18/2024 12:12	231260
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:12	231260
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	11/18/2024 12:12	231260
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	11/18/2024 12:12	231260
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	11/18/2024 12:12	231260
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 4:00	231194
Arsenic	NELAP	0.0010		**0.0158**	mg/L	5	11/20/2024 4:00	231194
Lithium	*	0.0030		**0.0134**	mg/L	5	11/20/2024 11:00	231194
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	11/20/2024 4:00	231194
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	11/20/2024 4:00	231194
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	11/18/2024 12:11	231196
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163
Radium-228	*	0		**See Attached**	pci/L	1	12/04/2024 0:00	R357163

Receiving Check List

Teklab, Inc. Environmental Laboratory

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 24110120
Client Project: Ash Pond Monitoring Wells
Report Date: 06-Dec-24

Carrier: Daniel Crump
Received By: JMD

Completed by: Amber Dilallo
On: 11-Nov-24

Reviewed by: Ellie Hopkins
On: 14-Nov-24

Pages to follow: Chain of custody 6 Extra pages included 62

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	10.9
Type of thermal preservation?	None ☐	Ice ☑	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☑	Lab ☐	NA ☐		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.					
Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑		
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑		
Water - pH acceptable upon receipt?	Yes ☐	No ☑	NA ☐		
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑		

Any No responses must be detailed below or on the COC.

pH strip #96651. - JD/amberdilallo - 11/11/2024 4:39:54 PM

Samples were received on 11/12/24 at 15:30 on ice [9.1 - LTG5]. Additional nitric acid (100984) was needed in 1 of 2 containers for AP-10. - MDarling - 11/13/2024 8:38:32 AM

Samples were received on 11/13/24 at 15:45 on ice [10.1C - LTG#5]. pH strip # 96651 - lhenson - 11/14/2024 8:27:05 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 10.9 °C 5
Preserved in: [ ] LAB [X] FIELD pH
FOR LAB USE ONLY
LAB NOTES: 96651
DD 11/12/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Justin Gap

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3	11-6-24 1103	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1	11-11-24 / 1144	Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2	1221	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3	1255	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4	1338	Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5	1428	Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6	1027	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
DJ SO	11-11 / 1610	Jaci Davis	11/11/24 16:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER	SAMPLE COLLECTOR'S NAME
Ash Pond Monitoring Wells	

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4		Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5		Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6		Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-11-1610	Joelle Davis	11/11/24 16:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 9.1 °C 5
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: Acid HNO3 (pH<2) to App10. pH 9 11/13/24 mD II

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [✓] No
Are these samples known to be hazardous? [ ] Yes [✓] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [✓] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: BrettGillihan

RESULTS REQUESTED: [✓] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10	11-12-24 1307	Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	11-12 / 1530	Jackie Davis	11/12/24 15:30

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

MD 11/13

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE ____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:
*1343 TES 11/21/24

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Bret Gillihan

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-012	AP-11	11-12-24 1001	Groundwater	1	2								✓	✓	✓	✓	✓	✓
013	AP-12	1049	Groundwater	1	2								✓	✓	✓	✓	✓	✓
014	AP-13	1125	Groundwater	1	2								✓	✓	✓	✓	✓	✓
015	AP-14	*1343	Groundwater	1	2								✓	✓	✓	✓	✓	✓
016	T-1	1209	Groundwater	1	2								✓	✓	✓	✓	✓	✓
017	T-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
018	T-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
019	T-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
020	T-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															

DRO ONLY

Relinquished By	Date/Time	Received By	Date/Time
	11-12/1520		11/12/24 15:30

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 10.1 °C 5
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: PH 9 4051
LT 4/14/24

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Li Se Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER
Ash Pond Monitoring Wells

SAMPLE COLLECTOR'S NAME
Brett Gillihan

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-001	RW-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	AP-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	AP-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AP-3		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	AP-4		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	AP-5		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	AP-6		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	AP-7	11-13-24 1107	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AP-8	11/13/24 1315	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AP-9	11-13-24 1230	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	AP-10		Groundwater	1	2								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
[signature]	11-13/1545	[signature]	11/13/24 1545

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 24110120

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☑ No
Are these samples known to be hazardous? ☐ Yes ☑ No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: ☑ Yes ☐ No Permit on file

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE ____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring

PROJECT NAME/NUMBER: Ash Pond Monitoring Wells
SAMPLE COLLECTOR'S NAME: Brett Gillihan

RESULTS REQUESTED: ☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
24110120-012	AP-11		Groundwater	1	2								✔	✔	✔	✔	✔	✔
013	AP-12		Groundwater	1	2								✔	✔	✔	✔	✔	✔
014	AP-13		Groundwater	1	2								✔	✔	✔	✔	✔	✔
015	AP-14		Groundwater	1	2								✔	✔	✔	✔	✔	✔
016	T-1	~~1209~~	Groundwater	1	2								✔	✔	✔	✔	✔	✔
017	T-2	11-13-24 1340	Groundwater	1	2								✔	✔	✔	✔	✔	✔
018	T-4	1207	Groundwater	1	2								✔	✔	✔	✔	✔	✔
019	T-5	1135	Groundwater	1	2								✔	✔	✔	✔	✔	✔
020	T-6	1037	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	11-13/1545		11/13/24 1545

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Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 10:36

Static Water Level: 11.45 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 32.56 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 32.56 ft. x 0.022 = 0.72 L x 3 Vol. = 2.16 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:37	0.0	173	purge start time						
10:42	0.9	↓	7.12	525.70	14.52	4.56	-168.70	6.48	
10:45	1.4		7.13	532.90	14.51	3.40	-178.00	46.77	
10:48	1.9		7.13	535.30	14.50	2.78	-180.60	90.25	
10:51	2.5		7.13	535.60	14.50	2.41	-181.80	122.85	
10:54	3.0		7.13	535.60	14.47	2.17	-182.50	72.57	
10:57	3.5		7.13	535.40	14.45	1.99	-182.90	112.49	
11:00	4.0		7.13	534.70	14.47	1.87	-183.00	50.61	
11:03	4.5		7.13	531.10	14.90	1.77	-182.40	47.61	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 11:03

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 7.13 pH — 531.10 Spec. Cond. — 14.90 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 15.89 feet below TOC — Drawdown: 4.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: [signature] — **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-1
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 58 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 11:19

Static Water Level: 10.39 feet below TOC

Total Depth: 31.08 feet below TOC

Water Column: 20.69 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 20.69 ft. x 0.022 = 0.46 L x 3 Vol. = 1.38 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:19	0.0	140	purge start time						
11:26	1.0	↓	6.54	1,269.10	15.84	3.49	-82.60	34.54	
11:29	1.4		6.54	1,307.80	15.87	2.83	-98.40	26.67	
11:32	1.8		6.54	1,328.20	15.98	2.43	-105.40	21.37	
11:35	2.2		6.54	1,343.50	16.07	2.16	-108.70	16.20	
11:38	2.7		6.54	1,356.50	16.17	1.97	-111.20	13.42	
11:41	3.1		6.54	1,368.10	16.23	1.83	-112.70	12.88	
11:44	3.5		6.54	1,377.10	16.24	1.72	-113.90	13.14	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 11:44

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.54 pH — 1,377.10 Spec. Cond. — 16.24 Temp

Field Filtered: No — Filter Type:

Water Level: 10.51 feet below TOC — Drawdown: 0.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: [signature] **Date:** 11/11/2024

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 24110120
Monitoring Point: AP-2
Sample ID: 003
Date (s): 11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 60 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 11:53
Static Water Level: 6.54 feet below TOC
Total Depth: 21.33 feet below TOC
Water Column: 14.79 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024
Purge Method: Bladder Pump — Well Diameter: 2"
Purge Volume Calculation (L): 14.79 ft. x 0.022 = 0.33 L x 3 Vol. = 0.99 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear — Odor: None — Color: none

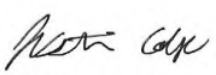
Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:53	0.0	214	purge start time						
12:00	1.5	↓	6.42	1,127.80	16.43	3.88	1.10	31.79	
12:03	2.1		6.41	1,131.40	16.38	3.04	-1.30	24.05	
12:06	2.8		6.41	1,134.90	16.33	2.54	-3.40	16.72	
12:09	3.4		6.41	1,137.30	16.31	2.23	-4.90	13.76	
12:12	4.1		6.41	1,138.80	16.27	2.01	-6.20	10.23	
12:15	4.7		6.41	1,140.60	16.25	1.86	-7.10	7.14	
12:18	5.4		6.41	1,142.00	16.24	1.74	-8.10	5.54	
12:21	6.0		6.41	1,143.30	16.26	1.65	-8.80	6.05	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 12:21
Sample Method: Low Flow — Sample Equipment: Bladder Pump
Sample Parameters: 6.41 pH — 1,143.30 Spec. Cond. — 16.26 Temp
Field Filtered: No — Filter Type:
Water Level: 6.61 feet below TOC — Drawdown: 0.07 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:  **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-3
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 12:28

Static Water Level: 9.55 feet below TOC

Total Depth: 20.80 feet below TOC

Water Column: 11.25 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 11.25 ft. x 0.022 = 0.25 L x 3 Vol. = 0.75 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:28	0.0	167	purge start time						
12:34	1.0	↓	6.50	1,066.10	17.84	4.02	-61.30	48.34	
12:37	1.5		6.48	1,069.40	18.11	3.05	-59.80	33.02	
12:40	2.0		6.48	1,071.90	18.13	2.53	-63.60	25.25	
12:43	2.5		6.48	1,070.90	18.15	2.22	-64.90	18.80	
12:46	3.0		6.48	1,071.00	18.21	2.01	-66.80	13.00	
12:49	3.5		6.48	1,071.60	18.13	1.86	-68.90	9.95	
12:52	4.0		6.48	1,070.80	18.09	1.75	-70.90	7.60	
12:55	4.5		6.48	1,070.20	18.19	1.66	-72.60	5.70	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 12:55

Sample Method: Low Flow — Sample Equipment: Bladder Pump

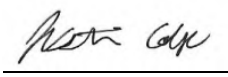
Sample Parameters: 6.48 pH — 1,070.20 Spec. Cond. — 18.19 Temp

Field Filtered: No — Filter Type:

Water Level: 9.55 feet below TOC — Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By:  **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-4
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F — Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 13:10

Static Water Level: 10.91 feet below TOC

Total Depth: 60.41 feet below TOC

Water Column: 49.50 feet

Purging Activities

Purged By: JC — Purge Date: 11/11/2024

Purge Method: Bladder Pump — Well Diameter: 2"

Purge Volume Calculation (L): 49.5 ft. x 0.022 = 1.09 L x 3 Vol. = 3.27 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:11	0.0	222	purge start time						
13:20	2.0	↓	6.81	681.40	17.79	3.86	-117.30	10.74	
13:23	2.7		6.81	683.50	17.73	3.06	-124.10	11.13	
13:26	3.3		6.82	684.40	17.70	2.55	-128.20	12.26	
13:29	4.0		6.82	686.00	17.61	2.22	-130.50	12.81	
13:32	4.7		6.82	687.30	17.58	1.99	-131.90	12.48	
13:35	5.3		6.82	687.80	17.56	1.83	-132.90	13.25	
13:38	6.0		6.82	688.10	17.53	1.71	-133.50	12.90	

Sampling Activities

Sampled By: JC — Sample Date/Time: 11/11/2024 13:38

Sample Method: Low Flow — Sample Equipment: Bladder Pump

Sample Parameters: 6.82 pH — 688.10 Spec. Cond. — 17.53 Temp

Field Filtered: No — Filter Type:

Water Level: 11.09 feet below TOC — Drawdown: 0.18 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: [signature] **Date:** 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-5
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	24110120	**Date (s):**	11/11/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 13:52

Static Water Level: 16.28 feet below TOC

Total Depth: 31.27 feet below TOC

Water Column: 14.99 feet

Purging Activities

Purged By: JC Purge Date: 11/11/2024

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 14.99 ft. x 0.022 = 0.33 L x 3 Vol. = 0.99 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:53	0.0	171	purge start time						
14:01	1.4	↓	6.95	560.40	14.92	5.12	16.00	3.62	
14:04	1.9		6.93	563.50	14.84	4.41	21.90	3.94	
14:07	2.4		6.92	565.40	14.82	3.90	26.70	3.71	
14:10	3.0		6.92	566.90	14.81	3.55	30.90	3.68	
14:13	3.5		6.91	567.90	14.79	3.31	34.80	3.91	
14:16	4.0		6.91	568.60	14.81	3.11	38.00	4.72	
14:19	4.5		6.91	569.00	14.81	2.97	40.80	5.23	
14:22	5.0		6.91	569.30	14.77	2.85	43.10	5.53	
14:25	5.5		6.91	569.20	14.75	2.75	45.20	5.69	
14:28	6.0		6.90	569.40	14.73	2.68	47.10	7.95	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/11/2024 14:28

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 6.90 pH 569.40 Spec. Cond. 14.73 Temp

Field Filtered: No Filter Type:

Water Level: 17.51 feet below TOC Drawdown: 1.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp **Date:** 11/11/2024

Field Data Sheet

Project Name: Ash Pond Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 24110120
Monitoring Point: AP-6
Sample ID: 007
Date (s): 11/11/2024

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F
Wind Direction: ☐ N ☐ S ☐ W ☑ E ☐ SE ☐ SW ☐ NE ☐ NW
Precipitation: ☑ None ☐ Light ☐ Heavy
Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/11/2024 9:53
Static Water Level: 9.81 feet below TOC
Total Depth: 39.62 feet below TOC
Water Column: 29.81 feet

Purging Activities

Purged By: JC
Purge Date: 11/11/2024
Purge Method: Bladder Pump
Well Diameter: 2"
Purge Volume Calculation (L): 29.81 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Clear
Odor: None
Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:54	0.0	152	purge start time						
10:00	1.0	↓	6.94	559.70	14.34	4.83	-126.70	19.66	
10:03	1.4		6.96	559.30	14.54	3.83	-128.70	40.45	
10:06	1.9		6.97	559.40	14.80	3.29	-127.40	48.92	
10:09	2.3		6.98	559.10	14.87	2.94	-124.90	39.08	
10:12	2.8		6.98	558.90	14.93	2.69	-123.30	41.40	
10:15	3.2		6.99	558.00	14.95	2.48	-122.00	40.96	
10:18	3.7		6.99	558.10	14.97	2.32	-120.90	60.40	
10:21	4.1		6.99	558.00	14.98	2.18	-119.80	43.02	
10:24	4.6		7.00	557.50	14.98	2.06	-118.70	40.71	
10:27	5.0		7.00	557.40	15.09	1.96	-117.40	46.15	

Sampling Activities

Sampled By: JC
Sample Date/Time: 11/11/2024 10:27
Sample Method: Low Flow
Sample Equipment: Bladder Pump
Sample Parameters: 7.00 pH 557.40 Spec. Cond. 15.09 Temp
Field Filtered: No Filter Type:
Water Level: 15.35 feet below TOC
Drawdown: 5.54 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210771

Form Completed By: Justin Colp
Date: 11/11/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-7
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 53 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 10:47

Static Water Level: 12.44 feet below TOC

Total Depth: 42.52 feet below TOC

Water Column: 30.08 feet

Purging Activities

Purged By: BG Purge Date: 11/13/2024

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.08 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:47	0.0	300	purge start time						
10:52	1.5	↓	7.31	711.40	13.46	1.34	-87.00	12.06	
10:55	2.4		7.22	748.70	13.77	0.95	-105.20	152.78	
10:58	3.3		7.19	765.90	13.83	0.87	-117.50	16.64	
11:01	4.2		7.18	771.50	13.87	0.77	-125.10	18.78	
11:04	5.1		7.17	775.00	13.73	0.69	-130.40	47.72	
11:07	6.0		7.17	774.30	13.70	0.64	-134.40	55.07	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 11:07

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.17 pH 774.30 Spec. Cond. 13.70 Temp

Field Filtered: No Filter Type:

Water Level: 12.89 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-8
Project Location:	Springfield, IL	**Sample ID:**	009
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 12:55

Static Water Level: 7.32 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 32.28 feet

Purging Activities

Purged By: TC Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.28 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:55	0.0	300	purge start time						
13:03	2.4	↓	6.79	733.30	14.12	1.20	-155.50	3.49	
13:06	3.3		6.79	733.60	14.08	0.94	-159.80	3.00	
13:09	4.2		6.78	733.40	14.09	0.81	-161.10	5.05	
13:12	5.1		6.78	733.30	14.10	0.74	-161.90	8.64	
13:15	6.0		6.78	733.20	14.07	0.69	-162.70	11.93	

Sampling Activities

Sampled By: TC Sample Date/Time: 11/13/2024 13:15

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.78 pH 733.20 Spec. Cond. 14.07 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 7.65 feet below TOC Drawdown: 0.33 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45720

Form Completed By: Tracy Carroll **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-9
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 12:17

Static Water Level: 13.23 feet below TOC

Total Depth: 39.60 feet below TOC

Water Column: 26.37 feet

Purging Activities

Purged By: BG Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.37 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:17	0.0	346	purge start time						
12:21	1.4	↓	6.80	969.80	14.66	2.46	-31.70	10.41	
12:24	2.4		6.80	964.80	14.77	2.34	-52.80	5.50	
12:27	3.5		6.80	968.30	14.83	2.18	-61.60	4.90	
12:30	4.5		6.80	968.20	14.86	1.77	-67.20	8.30	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 12:30

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.80 pH 968.20 Spec. Cond. 14.86 Temp

Field Filtered: No Filter Type:

Water Level: 13.62 feet below TOC Drawdown: 0.39 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-10
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 53 °F Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 12:48

Static Water Level: 5.59 feet below TOC

Total Depth: 38.07 feet below TOC

Water Column: 32.48 feet

Purging Activities

Purged By: BG Purge Date: 11/12/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 32.48 ft. x 0.022 = 0.71 L x 3 Vol. = 2.13 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: Slight Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:48	0.0	316	purge start time						
12:52	1.3	↓	6.88	1,154.40	13.84	1.87	-91.80	6.65	
12:55	2.2		6.79	1,152.30	13.93	1.57	-89.20	5.80	
12:58	3.2		6.76	1,152.90	13.91	1.45	-88.40	4.83	
13:01	4.1		6.75	1,152.60	13.92	1.39	-87.40	4.48	
13:04	5.1		6.74	1,154.10	13.92	1.21	-88.10	4.32	
13:07	6.0		6.73	1,152.60	13.96	1.18	-88.70	4.17	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2024 13:07

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.73 pH 1,152.60 Spec. Cond. 13.96 Temp

Field Filtered: No Filter Type:

Water Level: 5.96 feet below TOC Drawdown: 0.37 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-11
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 46 °F Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 9:42

Static Water Level: 15.43 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 7.52 feet

Purging Activities

Purged By: BG Purge Date: 11/12/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.52 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear Odor: Moderate Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:42	0.0	263	purge start time						
9:49	1.8	↓	6.98	960.80	13.91	2.87	-75.70	9.56	
9:52	2.6		6.83	959.50	14.03	2.38	-69.00	6.33	
9:55	3.4		6.74	959.00	14.16	2.08	-61.90	5.02	
9:58	4.2		6.69	958.40	14.20	1.91	-56.20	4.41	
10:01	5.0		6.66	958.40	14.28	1.75	-52.10	4.11	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2024 10:01

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.66 pH 958.40 Spec. Cond. 14.28 Temp

Field Filtered: No Filter Type:

Water Level: 15.78 feet below TOC Drawdown: 0.35 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan Date: 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-12
Project Location:	Springfield, IL	**Sample ID:**	013
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 47 °F Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 10:32

Static Water Level: 17.92 feet below TOC

Total Depth: 30.40 feet below TOC

Water Column: 12.48 feet

Purging Activities

Purged By: BG Purge Date: 11/12/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 12.48 ft. x 0.022 = 0.27 L x 3 Vol. = 0.81 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: Moderate Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:32	0.0	265	purge start time						
10:37	1.4	↓	6.71	1,546.30	13.57	1.75	-87.40	21.96	
10:40	2.2		6.63	1,552.80	13.68	1.50	-88.30	21.69	
10:43	3.0		6.61	1,556.30	13.67	1.36	-89.00	22.15	
10:46	3.8		6.60	1,556.60	13.64	1.25	-89.10	22.86	
10:49	4.5		6.59	1,554.80	13.67	1.19	-88.30	25.61	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2024 10:49

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.59 pH 1,554.80 Spec. Cond. 13.67 Temp

Field Filtered: No Filter Type:

Water Level: 18.14 feet below TOC Drawdown: 0.22 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-13
Project Location:	Springfield, IL	**Sample ID:**	014
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.

Name: Danny Crump — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 51 °F — Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 11:01

Static Water Level: 19.40 feet below TOC

Total Depth: 31.00 feet below TOC

Water Column: 11.60 feet

Purging Activities

Purged By: BG — Purge Date: 11/12/2024

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 11.6 ft. x 0.022 = 0.26 L x 3 Vol. = 0.78 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: Strong — Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:01	0.0	208	purge start time						
11:13	2.6	↓	6.71	777.40	13.10	1.30	-95.90	16.55	
11:16	3.2		6.70	776.60	13.17	1.24	-96.80	11.82	
11:19	3.8		6.69	776.60	13.22	1.20	-97.10	9.99	
11:22	4.5		6.68	776.30	13.23	1.16	-96.40	10.64	
11:25	5.1		6.67	776.10	13.20	1.12	-95.10	7.29	

Sampling Activities

Sampled By: BG — Sample Date/Time: 11/12/2024 11:25

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.67 pH — 776.10 Spec. Cond. — 13.20 Temp

Field Filtered: No — Filter Type:

Water Level: 19.49 feet below TOC — Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan — **Date:** 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	AP-14
Project Location:	Springfield, IL	**Sample ID:**	015
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 54 °F Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 13:23

Static Water Level: 4.64 feet below TOC

Total Depth: 31.20 feet below TOC

Water Column: 26.56 feet

Purging Activities

Purged By: 54 Purge Date: 11/12/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 26.56 ft. x 0.022 = 0.58 L x 3 Vol. = 1.74 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:23	0.0	75	purge start time						
13:28	0.4	↓	6.99	1,752.50	13.64	2.88	-45.90	15.14	
13:31	0.6		6.97	1,747.60	13.56	2.40	-41.10	39.05	
13:34	0.9		6.95	1,744.50	13.55	2.13	-39.00	143.38	
13:37	1.1		6.94	1,745.20	13.55	1.95	-38.10	11.17	
13:40	1.3		6.94	1,746.10	13.48	1.86	-37.60	9.13	
13:43	1.5		6.93	1,744.20	13.45	1.73	-37.40	8.02	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/12/2024 13:43

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.93 pH 1,744.20 Spec. Cond. 13.45 Temp

Field Filtered: No Filter Type:

Water Level: 5.21 feet below TOC Drawdown: 0.57 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-1
Project Location:	Springfield, IL	**Sample ID:**	016
W.O. Number (s):	24110120	**Date (s):**	11/12/2024

Field Team Members

Name: Brett Gillihan — Affiliation: TekLab, Inc.

Name: Danny Crump — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 51 °F — Wind Direction: ☐ N ☐ S ☑ W ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/2024 11:37

Static Water Level: 14.01 feet below TOC

Total Depth: 22.95 feet below TOC

Water Column: 8.94 feet

Purging Activities

Purged By: BG — Purge Date: 11/12/2024

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 8.94 ft. x 0.022 = 0.2 L x 3 Vol. = 0.6 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: Slight — Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:37	0.0	141	purge start time						
11:54	2.4	↓	6.57	1,463.40	13.80	1.39	-1.60	21.72	
11:57	2.8		6.57	1,464.20	13.79	1.31	-5.60	17.93	
12:00	3.2		6.57	1,464.00	13.82	1.27	-8.50	19.93	
12:03	3.7		6.57	1,467.00	13.83	1.34	-8.70	21.43	
12:06	4.1		6.57	1,469.00	13.87	1.34	-8.70	20.67	
12:09	4.5		6.57	1,468.80	13.93	1.32	-8.50	23.17	

Sampling Activities

Sampled By: BG — Sample Date/Time: 11/12/2024 12:09

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.57 pH — 1,468.80 Spec. Cond. — 13.93 Temp

Field Filtered: No — Filter Type:

Water Level: 14.37 feet below TOC — Drawdown: 0.36 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan — **Date:** 11/12/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-2
Project Location:	Springfield, IL	**Sample ID:**	017
W.O. Number (s):	24110120	**Date (s):**	11/113/24

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 13:17

Static Water Level: 15.23 feet below TOC

Total Depth: 34.44 feet below TOC

Water Column: 19.21 feet

Purging Activities

Purged By: BG Purge Date: 11/113/24

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 19.21 ft. x 0.022 = 0.42 L x 3 Vol. = 1.26 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:17	0.0	152	purge start time						
13:28	1.7	↓	6.57	1,878.50	13.27	1.72	-34.80	23.07	
13:31	2.1		6.56	1,874.10	13.09	1.43	-35.10	20.38	
13:34	2.6		6.55	1,870.40	13.02	1.30	-36.00	20.18	
13:37	3.0		6.55	1,871.80	13.02	1.24	-36.70	21.93	
13:40	3.5		6.54	1,874.80	13.05	1.20	-36.70	18.34	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 13:40

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.54 pH 1,874.80 Spec. Cond. 13.05 Temp

Field Filtered: No Filter Type:

Water Level: 15.73 feet below TOC Drawdown: 0.50 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-4
Project Location:	Springfield, IL	**Sample ID:**	018
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 11:43

Static Water Level: 19.62 feet below TOC

Total Depth: 27.42 feet below TOC

Water Column: 7.80 feet

Purging Activities

Purged By: BG Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.8 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:43	0.0	167	purge start time						
11:55	2.0	↓	6.70	650.20	14.40	1.41	-1.30	43.33	
11:58	2.5		6.67	649.10	14.37	1.45	6.20	44.30	
12:01	3.0		6.65	648.90	14.54	1.48	11.60	39.93	
12:04	3.5		6.65	649.90	14.57	1.45	15.50	34.46	
12:07	4.0		6.65	648.30	14.51	1.42	18.50	32.39	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 12:07

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.65 pH 648.30 Spec. Cond. 14.51 Temp

Field Filtered: No Filter Type:

Water Level: 20.42 feet below TOC Drawdown: 0.80 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-5
Project Location:	Springfield, IL	**Sample ID:**	019
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 56 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 11:13

Static Water Level: 11.46 feet below TOC

Total Depth: 22.34 feet below TOC

Water Column: 10.88 feet

Purging Activities

Purged By: BG Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 10.88 ft. x 0.022 = 0.24 L x 3 Vol. = 0.72 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:13	0.0	182	purge start time						
11:23	1.9	↓	6.88	570.50	15.02	2.44	-28.80	39.93	
11:26	2.4		6.86	557.00	15.35	2.33	-22.50	22.88	
11:29	2.9		6.84	551.80	15.42	2.29	-16.60	15.29	
11:32	3.5		6.83	549.80	15.44	2.25	-11.40	11.52	
11:35	4.0		6.82	548.60	15.52	2.21	-6.80	10.43	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 11:35

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.82 pH 548.60 Spec. Cond. 15.52 Temp

Field Filtered: No Filter Type:

Water Level: 11.86 feet below TOC Drawdown: 0.40 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Field Data Sheet

Project Name:	Ash Pond Monitoring Wells	**Monitoring Point:**	T-6
Project Location:	Springfield, IL	**Sample ID:**	020
W.O. Number (s):	24110120	**Date (s):**	11/13/2024

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 52 °F Wind Direction: ☐ N ☐ S ☐ W ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/13/2024 10:16

Static Water Level: 11.02 feet below TOC

Total Depth: 52.00 feet below TOC

Water Column: 40.98 feet

Purging Activities

Purged By: BG Purge Date: 11/13/2024

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 40.98 ft. x 0.022 = 0.9 L x 3 Vol. = 2.7 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:16	0.0	214	purge start time						
10:25	1.9	↓	7.19	876.30	14.43	1.67	-110.70	15.38	
10:28	2.6		7.08	874.80	14.82	1.62	-113.10	16.26	
10:31	3.2		7.02	872.10	14.59	1.34	-114.50	7.87	
10:34	3.9		6.99	868.80	14.41	1.16	-115.80	22.88	
10:37	4.5		6.97	868.80	14.51	1.10	-117.10	14.37	

Sampling Activities

Sampled By: BG Sample Date/Time: 11/13/2024 10:37

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.97 pH 868.80 Spec. Cond. 14.51 Temp

Field Filtered: No Filter Type:

Water Level: 11.34 feet below TOC Drawdown: 0.32 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Brett Gillihan **Date:** 11/13/2024

Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

December 05, 2024

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:

RE: 24110120

Order No.: 24111575

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 20 sample(s) on 11/20/2024 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
3310 Win St.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **24111575**
Date: **12/5/2024**

CLIENT: TEKLAB Inc,
Project: 24110120

WorkOrder Narrative:
24111575: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC
Analytical Laboratories

Summit Environmental Technologies, In
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **24111575**
Date: **12/5/2024**

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*****	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	**RL**	Reporting Limit
QC	Quality Control	**MDL**	Method Detection Limit
MB	Method Blank	**LOD**	Level of Detection
LCS	Laboratory Control Sample	**LOQ**	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	**PQL**	Practical Quantitation Limit
QCS	Quality Control Sample	**CRQL**	Contract Required Quantitation Limit
DUP	Duplicate	**PL**	Permit Limit
MS	Matrix Spike	**RegLvl**	Regulatory Limit
MSD	Matrix Spike Duplicate	**MCL**	Maximum Contamination Limit
RPD	Relative Percent Different	**MinCL**	Minimum Compound Limit
ICV	Initial Calibration Verification	**RA**	Reanalysis
ICB	Initial Calibration Blank	**RE**	Reextraction
CCV	Continuing Calibration Verification	**TIC**	Tentatively Identified Compound
CCB	Continuing Calibration Blank	**RT**	Retention Time
RLC	Reporting Limit Check	**CF**	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Summit Environmental Technologies, Inc.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **24111575**
05-Dec-24

CLIENT: TEKLAB Inc,
Project: 24110120

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
24111575-001	24110120-001		11/11/2024 11:03:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-002	24110120-002		11/11/2024 11:44:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-003	24110120-003		11/11/2024 12:21:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-004	24110120-004		11/11/2024 12:55:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-005	24110120-005		11/11/2024 1:38:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-006	24110120-006		11/11/2024 2:28:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-007	24110120-007		11/11/2024 10:27:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-008	24110120-008		11/13/2024 11:07:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-009	24110120-009		11/13/2024 1:15:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-010	24110120-010		11/13/2024 12:30:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-011	24110120-011		11/12/2024 1:07:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-012	24110120-012		11/12/2024 10:01:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-013	24110120-013		11/12/2024 10:49:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-014	24110120-014		11/12/2024 11:25:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-015	24110120-015		11/12/2024 1:49:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-016	24110120-016		11/12/2024 12:09:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-017	24110120-017		11/13/2024 1:40:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-018	24110120-018		11/13/2024 12:07:00 PM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-019	24110120-019		11/13/2024 11:35:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water
24111575-020	24110120-020		11/13/2024 10:37:00 AM	11/20/2024 1:00:00 PM	Non-Potable Water

Summit Environmental Technologies, Inc.
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111575-001A	24110120-001	11/11/2024 11:03:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-002A	24110120-002	11/11/2024 11:44:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-003A	24110120-003	11/11/2024 12:21:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-004A	24110120-004	11/11/2024 12:55:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-005A	24110120-005	11/11/2024 1:38:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-006A	24110120-006	11/11/2024 2:28:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-007A	24110120-007	11/11/2024 10:27:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-008A	24110120-008	11/13/2024 11:07:00 AM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-009A	24110120-009	11/13/2024 1:15:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-010A	24110120-010	11/13/2024 12:30:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-011A	24110120-011	11/12/2024 1:07:00 PM		Radium-226 (EPA 903.0)		11/23/2024 8:45:00 AM	12/4/2024 9:31:52 AM
				Radium-228 (EPA 904.0)		11/23/2024 8:45:00 AM	12/3/2024 4:29:04 PM
24111575-012A	24110120-012	11/12/2024 10:01:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM

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DATES REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
24111575-012A	24110120-012	11/12/2024 10:01:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-013A	24110120-013	11/12/2024 10:49:00 AM		Radium-226 (EPA 903.0)		11/22/2024 11:34:00 AM	11/29/2024 9:41:00 AM
				Radium-228 (EPA 904.0)		11/22/2024 11:34:00 AM	11/27/2024 2:09:00 PM
24111575-014A	24110120-014	11/12/2024 11:25:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-015A	24110120-015	11/12/2024 1:49:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-016A	24110120-016	11/12/2024 12:09:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-017A	24110120-017	11/13/2024 1:40:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-018A	24110120-018	11/13/2024 12:07:00 PM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-019A	24110120-019	11/13/2024 11:35:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM
24111575-020A	24110120-020	11/13/2024 10:37:00 AM		Radium-226 (EPA 903.0)		11/26/2024 1:09:00 PM	12/5/2024 9:34:00 AM
				Radium-228 (EPA 904.0)		11/26/2024 1:09:00 PM	12/4/2024 2:33:00 PM

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 11:03:00 AM

Project: 24110120

Lab ID: 24111575-001
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.23	1.00		pCi/L	± 0.650	1	12/3/2024 4:29:04 PM
Yield	0.980					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 11:44:00 AM

Project: 24110120

Lab ID: 24111575-002
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.130	1	12/4/2024 9:31:52 AM
Yield	0.980					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.490	1	12/3/2024 4:29:04 PM
Yield	0.930					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 12:21:00 PM

Project: 24110120

Lab ID: 24111575-003
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.450	1	12/3/2024 4:29:04 PM
Yield	0.990					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 12:55:00 PM
Project: 24110120
Lab ID: 24111575-004
Matrix: NON-POTABLE WATER
Client Sample ID: 24110120-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	0.810					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.630	1	12/3/2024 4:29:04 PM
Yield	0.780					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 1:38:00 PM

Project: 24110120

Lab ID: 24111575-005
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.120	1	12/4/2024 9:31:52 AM
Yield	0.990					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.710	1	12/3/2024 4:29:04 PM
Yield	0.860					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 2:28:00 PM

Project: 24110120

Lab ID: 24111575-006
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-006

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.590	1	12/3/2024 4:29:04 PM
Yield	0.990					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/11/2024 10:27:00 AM

Project: 24110120

Lab ID: 24111575-007
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/4/2024 9:31:52 AM
Yield	0.980					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.520	1	12/3/2024 4:29:04 PM
Yield	1.00					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 11:07:00 AM

Project: 24110120

Lab ID: 24111575-008
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-008

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/4/2024 9:31:52 AM
Yield	1.00					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	ND	1.00		pCi/L	± 0.660	1	12/3/2024 4:29:04 PM
Yield	0.880					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 1:15:00 PM

Project: 24110120

Lab ID: 24111575-009
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-009

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	1.05	1.00		pCi/L	± 0.200	1	12/4/2024 9:31:52 AM
Yield	0.970					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.52	1.00		pCi/L	± 0.770	1	12/3/2024 4:29:04 PM
Yield	0.930					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 12:30:00 PM

Project: 24110120

Lab ID: 24111575-010
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.130	1	12/4/2024 9:31:52 AM
Yield	0.980					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.01	1.00		pCi/L	± 0.670	1	12/3/2024 4:29:04 PM
Yield	0.960					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 1:07:00 PM

Project: 24110120

Lab ID: 24111575-011
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-011

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SMZ**
Radium-226	ND	1.00		pCi/L	± 0.210	1	12/4/2024 9:31:52 AM
Yield	0.790					1	12/4/2024 9:31:52 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SMZ**
Radium-228	1.61	1.00		pCi/L	± 0.870	1	12/3/2024 4:29:04 PM
Yield	0.770					1	12/3/2024 4:29:04 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 10:01:00 AM

Project: 24110120

Lab ID: 24111575-012
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.340	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 10:49:00 AM

Project: 24110120

Lab ID: 24111575-013
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-013

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	11/29/2024 9:41:00 AM
Yield	0.970					1	11/29/2024 9:41:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.340	1	11/27/2024 2:09:00 PM
Yield	0.960					1	11/27/2024 2:09:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 11:25:00 AM

Project: 24110120

Lab ID: 24111575-014
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-014

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.390	1	12/4/2024 2:33:00 PM
Yield	0.900					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 1:49:00 PM

Project: 24110120

Lab ID: 24111575-015
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-015

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.390	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/12/2024 12:09:00 PM

Project: 24110120

Lab ID: 24111575-016
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-016

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.110	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.340	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 1:40:00 PM

Project: 24110120

Lab ID: 24111575-017
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-017

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.100	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.380	1	12/4/2024 2:33:00 PM
Yield	0.990					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 12:07:00 PM

Project: 24110120

Lab ID: 24111575-018
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-018

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.400	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 11:35:00 AM
Project: 24110120
Lab ID: 24111575-019
Matrix: NON-POTABLE WATER
Client Sample ID: 24110120-019

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	ND	1.00		pCi/L	± 0.390	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

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WO#: **24111575**

Date Reported: **12/5/2024**

CLIENT: TEKLAB Inc,
Collection Date: 11/13/2024 10:37:00 AM

Project: 24110120

Lab ID: 24111575-020
Matrix: NON-POTABLE WATER

Client Sample ID: 24110120-020

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **DHF**
Radium-226	ND	1.00		pCi/L	± 0.110	1	12/5/2024 9:34:00 AM
Yield	1.00					1	12/5/2024 9:34:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **DHF**
Radium-228	1.08	1.00		pCi/L	± 0.450	1	12/4/2024 2:33:00 PM
Yield	1.00					1	12/4/2024 2:33:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **MB-80532** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80532** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.06	1.00	5.000	0	61.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-80532** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359801**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.45	1.00	5.000	0	69.0	50	130	3.060	12.0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **24111631-001EDUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198234**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E904.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5359814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **MB-80532** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359889**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-80532** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	3.53	1.00	5.000	0	70.6	70	130				QLR

Sample ID: **LCSD-80532** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359891**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.98	1.00	5.000	0	99.6	70	130	3.530	34.1	20	R

Sample ID: **24111631-001EDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80532**

Sample ID: **24111631-001EDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/26/2024** RunNo: **198237**
Client ID: **BatchQC** Batch ID: **80532** TestNo: **E903.0** **E903-904** Analysis Date: **12/5/2024** SeqNo: **5359904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **MB-80533** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80533** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.41	1.00	5.000	0	68.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-80533** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.37	1.00	5.000	0	67.4	50	130	3.410	1.18	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197941**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E904.0** **E903-904** Analysis Date: **11/27/2024** SeqNo: **5352692**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.11	1.00		0	0			0.9300	17.6	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **MB-80533** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	1.00										

Sample ID: **LCS-80533** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352722**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.06	1.00	5.000	0	101	70	130				

Sample ID: **LCSD-80533** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352723**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.18	1.00	5.000	0	83.6	70	130	5.060	19.0	20	

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80533**

Sample ID: **24111225-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352733**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Sample ID: **24111363-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/22/2024** RunNo: **197943**
Client ID: **BatchQC** Batch ID: **80533** TestNo: **E903.0** **E903-904** Analysis Date: **11/29/2024** SeqNo: **5352735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **MB-80535** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0						
Yield	1.00			0	0						

Sample ID: **LCS-80535** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.46	1.00	5.000	0	89.2	50	130				
Yield	0.970			0	0						

Sample ID: **LCSD-80535** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358244**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.32	1.00	5.000	0	106	50	130	4.460	17.6	20	
Yield	0.970			0	0			0.9700	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358249**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			0.7500	28.6		

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198153**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E904.0** **E903-904** Analysis Date: **12/3/2024** SeqNo: **5358269**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	0.910			0	0			1.000	9.42		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **MB-80535** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00									
Yield	0.990										

Sample ID: **LCS-80535** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.81	1.00	5.000	0	116	70	130				

Sample ID: **LCSD-80535** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.22	1.00	5.000	0	104	70	130	5.810	10.7	20	

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **24111575**

05-Dec-24

Client: TEKLAB Inc,
Project: 24110120 **BatchID:** **80535**

Sample ID: **24111317-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							0.8200	19.8	0	

Sample ID: **24111607-001DDUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **11/23/2024** RunNo: **198160**
Client ID: **BatchQC** Batch ID: **80535** TestNo: **E903.0** **E903-904** Analysis Date: **12/4/2024** SeqNo: **5358458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	0.980							1.000	2.02	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

24111575

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

17.4-0.0=17.4°C
17.2-0.0=17.2°C
17.3-0.0=17.3°C
CS intact 11/18/24

Cooler Temp: 17.2-17.4 (Sampler: Client QC Level: 2

Fedex, Cooler

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24110120

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37434 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		CPM							pH			
	24110120-001	11/11/24 1103	HNO3	Groundwater	✔		32							1			
	24110120-002	11/11/24 1144	HNO3	Groundwater	✔		22							1			
	24110120-003	11/11/24 1221	HNO3	Groundwater	✔		14							1			
	24110120-004	11/11/24 1255	HNO3	Groundwater	✔		30							1			
	24110120-005	11/11/24 1338	HNO3	Groundwater	✔		30							1			
	24110120-006	11/11/24 1428	HNO3	Groundwater	✔		40							1			
	24110120-007	11/11/24 1027	HNO3	Groundwater	✔		36							1			
	24110120-008	11/13/24 1107	HNO3	Groundwater	✔		36							1			
	24110120-009	11/13/24 1315	HNO3	Groundwater	✔		42							1			
	24110120-010	11/13/24 1230	HNO3	Groundwater	✔		28							1			
	24110120-011	11/12/24 1307	HNO3	Groundwater	✔		30							1			

*Relinquished By	Date/Time	Received By	Date/Time
			11/20/24, 1300

Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization. and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Are the samples chilled? YES ☐ NO ☑ With: ☐ Ice ☐ Blue Ice Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

17.4-0.0=17.4°C
17.2-0.0=17.2°C
17.3-0.0=17.3°C

Cooler Temp: 17.2-17.4°C Sampler: Client QC Level: 2

Fedex, Cooler IS intact 11/18/24

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 24110120

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT Billing/PO: 37434 Phone: (618) 344-1004 ext. 36

PLEASE NOTE:

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228		cpm					pH				
	24110120-012	11/12/24 1001	HNO3	Groundwater	✔		24					1				
	24110120-013	11/12/24 1049	HNO3	Groundwater	✔		32					1				
	24110120-014	11/12/24 1125	HNO3	Groundwater	✔		32					1				
	24110120-015	11/12/24 1349	HNO3	Groundwater	✔		26					1				
	24110120-016	11/12/24 1209	HNO3	Groundwater	✔		22					1				
	24110120-017	11/13/24 1340	HNO3	Groundwater	✔		40					1				
	24110120-018	11/13/24 1207	HNO3	Groundwater	✔		28					1				
	24110120-019	11/13/24 1135	HNO3	Groundwater	✔		26					1				
	24110120-020	11/13/24 1037	HNO3	Groundwater	✔		20					1				
			HNO3	Groundwater												
			HNO3	Groundwater												

*Relinquished By	Date/Time	Received By	Date/Time
Undra Dilworth			11/20/24, 1300

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Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111575 RcptNo: 1

Logged by:	Anthony W. Britton	11/20/2024 1:00:00 PM	Anthony Britton
Completed By:	Anthony W. Britton	11/21/2024 1:24:10 PM	Anthony Britton
Reviewed By:	Jennifer Woolf	11/26/2024 11:15:22 AM	Jennifer Woolf

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
	Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
	No. Seal Date: 11/18/2024 Signed By:			
5.	Was an attempt made to cool the samples?	Yes ☐	No ☑	NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☑	NA ☐
		Not required		
7.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
8.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
9.	Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
10.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
11.	Is the headspace in the VOA vials less than 1/4 inch or 6 mm?	Yes ☐	No ☐	No VOA Vials ☑
12.	Were any sample containers received broken?	Yes ☐	No ☑	
13.	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
14.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
15.	Is it clear what analyses were requested?	Yes ☑	No ☐	
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

Special Handling (if applicable)

17.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.4	Good	Yes		11/18/2024	

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Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 24111575 RcptNo: 1

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	17.2	Good	Yes		11/18/2024	
3	17.3	Good	Yes		11/18/2024	

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 11 :0005

Personnel: HV

Site/Location: CWLP CCR Wells Well ID/Description: D-3

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 11.63 ft. (~) Total Depth: 32.72 ft. (~)

Volume: 3.41 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
1053	10.01	1938	17.9°C	8gal purged after bailer
1055	10.05	1877	17.3°C	
1057	10.07	1881	16.5°C	
1059	10.07	1871	16.3°C	
11:00	10.06	1870	16.2°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☐ Moderate ☒ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 9mph NE

Precipitation: Y or (N) Temp: 81°

Outlook: Cloudy

Notes: 7gal purged 7/18 for development

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
	-	X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Ann VanHook Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 10:25

Personnel: AN

Site/Location: CWLP CCR Wells Well ID/Description: D-2

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 13.29 ft. (~) Total Depth: 37.65 ft. (~)

Volume: 3.97 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
1020	9.63	3154	17.1°C	8.25 gal purged 33 bails
1021	9.80	3133	16.2°C	filter
1023	9.82	3120	16.5°C	bailer
1024	9.84	3118	16.2°C	
1025	9.85	3121	16.0°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☐ Moderate ☒ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 7mph NE

Precipitation: Y or (N) Temp: 80°

Outlook: Cloudy

Notes: 7.50 gal purged 1118 for well development

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Ann Ventura K Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/18/24 Time: 14:20

Personnel: AN

Site/Location: CWLP CCR Wells Well ID/Description: D-1

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 21.16 ft. (~) Total Depth: 41.30 ft. (~)

Volume: 3.26 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
1407	10.26	2252	17.6°C	10 gals purged
1409	10.28	2266	15.7°C	filter
1411	10.33	2270	15.3°C	1 bailer
1418	10.34	2280	15.4°C	
1420	10.32	2270	15.3°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☒ Moderate ☐ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Slight leachate

Weather Conditions:

Wind Speed/Direction: NE 8 mph

Precipitation: Y or (N) Temp: 79°

Outlook: Partly Cloudy

Notes: Purged well volume same day.

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/18/24 Signature: Ann VanTuk Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 11:35

Personnel: ATV

Site/Location: CWLP CCR Wells Well ID/Description: D-4

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 20.15 ft. (~) Total Depth: 36.35 ft. (~)

Volume: 2.62 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
1130	10.21	4575	16.8°C	7.50 gal purged
1131	10.30	4596	16.6°C	filter
1132	10.30	4597	16.6°C	1 bailed
1134	10.31	4599	16.6°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☐ Moderate ☒ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 8mph NE

Precipitation: Y or (N) Temp: 83°

Outlook: Cloudy

Notes: 1gal purged 7/18 for well development

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Ann VanHak Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 9:1820

Personnel: AV

Site/Location: CWLP CCR Wells Well ID/Description: L-3

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 15.07 ft. (~) Total Depth: 36.30 ft. (~)

Volume: 3.43 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
9:11	8.38	3527	16.5°C	36 bails
9:12	8.29	3499	15.6°C	9 gal purged
9:14	8.26	3485	15.8°C	1 filter
9:15	8.26	3487	15.7°C	1 bailer

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☒ Moderate ☐ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 8mph NE

Precipitation: Y or (N) Temp: 79

Outlook: Cloudy

Notes: 8 gal purged on 7/18 for well development

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Amit VanHook Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/18/24 Time: 11:10

Personnel: HV

Site/Location: CWLP CCR Wells Well ID/Description: L-1

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 12.59 ft. (~) Total Depth: 39.39 ft. (~)

Volume: gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
11:00	9.68	3517	17.8	
11:02	9.71	3502	14.9	13.25gal (plug)
11:04	9.71	3499	14.8	Water
				filter

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☒ Clear ☐ Slight ☐ Moderate ☐ High

Color: ☒ Clear ☐ Other

Odor: ☒ None ☐ Other

Weather Conditions:

Wind Speed/Direction: 6mph NNE

Precipitation: Y or (N) Temp: 72°

Outlook: partly cloudy

Notes:

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/18/24 Signature: Andrew VanHook Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 8:55

Personnel: AVH

Site/Location: CWLP CCR Wells Well ID/Description: L-4

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 9.82 ft. (~) Total Depth: 17.73 ft. (~)

Volume: 1.28 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
8:43	8.90	5518	15.4°C	12.25 gal purged
8:45	9.08	5345	15.3°C	Bailer
8:47	9.10	5385	14.7°C	Filter
8:50	9.12	5384	14.7°C	
8:53	9.12	5398	14.5°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☐ Moderate ☒ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 7 mph NNE

Precipitation: Y or (N) Temp: 74°

Outlook: Cloudy

Notes: 11 gal purged on 7/18 for well development.

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Anne VanHook Company: Andrews Engineering, Inc.

ANDREWS ENGINEERING

Groundwater Monitoring Field Form

Date(mm/dd/yy): 7/19/24 Time: 9:55

Personnel:

Site/Location: CWLP CCR Wells Well ID/Description: L-5

Sampling Equipment: ☐ Dedicated Pump ☒ Disposable Bailer ☐ Other:

Filter: ☐ Not Applicable ☒ In-Line Disposable ☐ Vacuum ☐ Other:

Depth to Water: 18.54 ft. (~) Total Depth: 39.32 ft. (~)

Volume: 3.39 gal. (Total Depth - Depth to Water x 0.162)

Time	pH (std units)	Spec. Cond. (umhos/cm)	Temp. (deg C or F)	Notes
9:46	8.40	3663	14.3°C	6.25gal purged
9:48	8.45	3632	13.8°C	1ft. Head
9:50	8.47	3620	14.0°C	1 bailer
9:52	8.47	3621	14.0°C	

Number of Bottles Filled: 5 Description of Bottles Not Filled:

Sample Appearance:

Turbidity: ☐ Clear ☐ Slight ☐ Moderate ☒ High

Color: ☐ Clear ☒ Other brown

Odor: ☐ None ☒ Other Leachate

Weather Conditions:

Wind Speed/Direction: 7mph NNE

Precipitation: Y or (N) Temp: 85°

Outlook: partly cloudy

Notes: 5.50 gal purged for well development

Well Condition Inspection:

Yes	No	N/A	
X			Is the well location correctly shown on map, labeled and flagged if hard to find?
X			Is the well free of physical damage, kinks or bends?
X			Is the well absent of standing/ponding water; and is the pad sloped to prevent ponding?
		X	Is a lock present and in good condition?
		X	If necessary, are protective posts present?
		X	Does the well have weep holes at the base of the protective casing?
	X		Is the annular space appropriately filled with filtering material and free of animal/insect nests?
		X	Is the casing secure and in good condition?
		X	Is the pad in good condition (free of erosion, cracks, etc.)?
		X	Is the protective casing in good condition and free of rust?
		X	If rust is identified on the casing, does it affect the security of the well?
X			Is the riser cap properly vented?

Place a comment in the Notes section for any "No" answers.

Date: 7/19/24 Signature: Ann VanTork Company: Andrews Engineering, Inc.